











Speed Controllers with One-touch Fitting

Speed Controller with One-touch Fitting: Standard Type

	Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
			2	3.2	4	6	8	10	12	
Elbow type Push-lock type 	AS12□1F	M5	•	•	•	•	•	•	•	191
	AS22□1F	1/8, 1/4		•	•	•	•	•	•	
	AS32□1F	1/4, 3/8				•	•	•	•	
	AS42□1F	1/2					•	•	•	
Elbow type Push-lock type Face seal 	AS22□1F	1/8, 1/4		•	•	•	•	•	•	193
	AS32□1F	1/4, 3/8				•	•	•	•	
	AS42□1F	1/2					•	•	•	
With indicator/ Elbow type Push-lock type 	AS12□1FS	M5	•	•	•	•	•	•	•	196
	AS22□1FS	1/8, 1/4		•	•	•	•	•	•	
	AS32□1FS	1/4, 3/8				•	•	•	•	
	AS42□1SF	1/2					•	•	•	
Elbow type 	AS12□1F	M3	•	•	•	•	•	•	•	199
	AS12□1F	M5	•	•	•	•	•	•	•	
	AS22□1F	1/8, 1/4		•	•	•	•	•	•	
	AS32□1F	1/4, 3/8				•	•	•	•	
	AS42□1F	1/2					•	•	•	
Universal type Push-lock type 	AS13□1F	M5		•	•	•	•	•	•	191
	AS23□1F	1/8, 1/4		•	•	•	•	•	•	
	AS33□1F	1/4, 3/8				•	•	•	•	
	AS43□1F	1/2					•	•	•	
Universal type Push-lock type Face seal 	AS23□1F	1/8		•	•	•	•	•	•	193
	AS23□1F	1/4			•	•	•	•	•	
	AS33□1F	1/4, 3/8				•	•	•	•	
	AS43□1F	1/2					•	•	•	
Universal type 	AS13□1F	M3		•	•	•	•	•	•	199
	AS13□1F	M5		•	•	•	•	•	•	
	AS23□1F	1/8, 1/4		•	•	•	•	•	•	
	AS33□1F	1/4, 3/8				•	•	•	•	
	AS43□1F	1/2					•	•	•	
Flame Resistant (Equivalent to UL-94 Standard V-0) Elbow type 	AS22□1F	1/8, 1/4				•	•	•	•	203
	AS32□1F	1/4, 3/8				•	•	•	•	
	AS42□1F	1/2					•	•	•	
Plug-in type 	AS10□0P	∅ 4			•					205
	AS20□0P	∅ 4, ∅ 6			•	•				
	AS25□0P	∅ 6				•				
	AS30□0P	∅ 8, ∅ 10					•	•		
Elbow type (Metal body) 	AS12□1	M5			•	•				207
	AS22□1	1/8				•	•			
	AS22□1	1/4				•	•			
	AS32□1	3/8				•	•			
	AS42□1	1/2					•	•		

Speed Controller with One-touch Fitting: Standard Type

In-line type
Push-lock type

With indicator/
In-line type
Push-lock type

In-line type

In-line type
Panel mount type

Centralised
piping type

Dual speed
controller

Elbow type with
Uni One-touch fitting
Push-lock type

With Indicator/
Elbow type/Uni thread
Push-lock type

Elbow type with
Uni One-touch fitting

Universal type with
Uni One-touch fitting
Push-lock type

Universal type with
Uni One-touch fitting

Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS1002F-□A			●	●	●	●	●	●	195
AS2002F-□A				●	●	●	●	●	
AS2052F-□A					●	●	●	●	
AS3002F-□A						●	●	●	
AS4002F-□A							●	●	
AS1002FS□			●	●	●	●	●	●	198
AS2002FS□				●	●	●	●	●	
AS2052FS□					●	●	●	●	
AS3002FS□						●	●	●	
AS4002FS□							●	●	
AS1002F			●	●	●	●	●	●	211
AS2002F				●	●	●	●	●	
AS2052F					●	●	●	●	
AS3002F						●	●	●	
AS4002F							●	●	
AS1001F			●	●	●	●	●	●	212
AS2001F				●	●	●	●	●	
AS2051F					●	●	●	●	
AS3001F						●	●	●	
AS4001F							●	●	
AS-DPP00092	∅ 4			●	●	●	●	●	213
AS-DPP00093	∅ 6				●	●	●	●	
ASD230F	M5			●	●	●	●	●	214
ASD330F	1/8				●	●	●	●	
ASD430F	1/4					●	●	●	
ASD530F	1/4						●	●	
ASD530F	3/8							●	
ASD630F	1/2							●	
AS22□1F	1/8, 1/4			●	●	●	●	●	215
AS32□1F	1/4, 3/8				●	●	●	●	
AS42□1F	1/2						●	●	
AS22□1F	1/8, 1/4			●	●	●	●	●	217
AS32□1F	1/4, 3/8				●	●	●	●	
AS42□1F	1/2						●	●	
AS22□1F	1/8, 1/4			●	●	●	●	●	219
AS32□1F	3/8				●	●	●	●	
AS42□1F	1/2						●	●	
AS23□1F	1/8, 1/4			●	●	●	●	●	215
AS33□1F	1/4, 3/8				●	●	●	●	
AS43□1F	1/2						●	●	
AS23□1F	1/8, 1/4			●	●	●	●	●	219
AS33□1F	3/8				●	●	●	●	
AS43□1F	1/2						●	●	












Speed Controller with Residual Pressure Release Valve

With One-touch
fitting/Elbow

With One-touch
fitting/Universal

Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS22□1FE	1/8			●	●	●	●	●	221
AS22□1FE	1/4				●	●	●	●	
AS32□1FE	3/8					●	●	●	
AS42□1FE	1/2						●	●	
AS23□1FE	1/8			●	●	●	●	●	221
AS23□1FE	1/4				●	●	●	●	
AS33□1FE	3/8					●	●	●	
AS43□1FE	1/2						●	●	

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/
FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

	Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
			2	3.2	4	6	8	10	12	
Elbow type Push-lock type 	AS12□1FG	M5	•	•	•	•	•	•	•	223
	AS22□1FG	1/8, 1/4			•	•	•	•	•	
	AS32□1FG	1/4, 3/8				•	•	•	•	
	AS42□1FG	1/2					•	•	•	
With indicator/Elbow type Push-lock type 	AS12□1FSG	M5	•	•	•	•	•	•	•	225
	AS22□1FSG	1/8, 1/4			•	•	•	•	•	
	AS32□1FSG	1/4, 3/8				•	•	•	•	
	AS42□1FSG	1/2					•	•	•	
Elbow type 	AS12□1FG	M5			•	•	•	•	•	227
	AS22□1FG	1/8			•	•	•	•	•	
	AS22□1FG	1/4				•	•	•	•	
	AS32□1FG	1/4					•	•	•	
	AS32□1FG	3/8						•	•	
	AS42□1FG	1/2							•	
Universal type Push-lock type 	AS13□1FG	M5			•	•	•	•	•	223
	AS23□1FG	1/8, 1/4			•	•	•	•	•	
	AS33□1FG	1/4, 3/8				•	•	•	•	
	AS43□1FG	1/2					•	•	•	
Universal type 	AS13□1FG	M5			•	•	•	•	•	227
	AS23□1FG	1/8			•	•	•	•	•	
	AS23□1FG	1/4				•	•	•	•	
	AS33□1FG	1/4					•	•	•	
	AS33□1FG	3/8						•	•	
	AS43□1FG	1/2							•	
In-line type Push-lock type 	AS1002FG-□A				•	•	•	•	•	229
	AS2002FG-□A				•	•	•	•	•	
	AS2052FG-□A					•	•	•	•	
	AS3002FG-□A						•	•	•	
	AS4002FG-□A								•	
With indicator/In-line type Push-lock type 	AS1002FSG□				•	•	•	•	•	230
	AS2002FSG□				•	•	•	•	•	
	AS2052FSG□					•	•	•	•	
	AS3002FSG□						•	•	•	
	AS4002FSG□								•	
In-line type 	AS1001FG				•	•	•	•	•	231
	AS2001FG				•	•	•	•	•	
	AS2051FG					•	•	•	•	
	AS3001FG						•	•	•	
	AS4001FG								•	
Dual speed controller 	ASD230FG	M5			•	•	•	•	•	232
	ASD330FG	1/8			•	•	•	•	•	
	ASD430FG	1/4				•	•	•	•	
	ASD530FG	1/4					•	•	•	
	ASD530FG	3/8						•	•	
	ASD630FG	1/2							•	
Elbow Type 	ASG22□F-M5	M5			•	•	•	•	•	233
	ASG32□F01	1/8			•	•	•	•	•	
	ASG42□F02	1/4				•	•	•	•	
	ASG52□F03	3/8					•	•	•	
	ASG62□F04	1/2							•	
Clean speed controller with One-touch fitting 	AS12□1FP□	M5			•	•	•	•	•	235
	AS22□1FP□	1/8			•	•	•	•	•	
	AS22□1FP□	1/4				•	•	•	•	
	AS32□1FP□	3/8					•	•	•	
	AS42□1FP□	1/2							•	

Speed Controller for Low Speed Operation

Elbow type



Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS12□1FM	M5		●	●	●	●	●	●	237
AS22□1FM	1/8		●	●	●	●	●	●	
AS22□1FM	1/4			●	●	●	●	●	
AS13□1FM	M5		●	●	●	●	●	●	237
AS23□1FM	1/8		●	●	●	●	●	●	
AS23□1FM	1/4			●	●	●	●	●	
AS1001FM			●	●	●	●	●	●	239
AS2001FM				●	●	●	●	●	
AS2051FM					●	●	●	●	
ASD230FM	M5			●	●	●	●	●	240
ASD330FM	1/8				●	●	●	●	
ASD430FM	1/4					●	●	●	

Universal type



In-line type



Dual speed controller



Speed Controller Adjustable by Flat Head Screwdriver

Elbow type

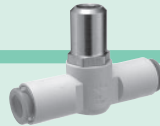


Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS12□1F-D	M5		●	●	●	●	●	●	241
AS22□1F-D	1/8, 1/4		●	●	●	●	●	●	
AS32□1F-D	1/4, 3/8			●	●	●	●	●	
AS42□1F-D	1/2				●	●	●	●	
AS13□1F-D	M5		●	●	●	●	●	●	241
AS23□1F-D	1/8, 1/4		●	●	●	●	●	●	
AS33□1F-D	1/4, 3/8			●	●	●	●	●	
AS43□1F-D	1/2				●	●	●	●	
AS1001F-D			●	●	●	●	●	●	243
AS2001F-D				●	●	●	●	●	
AS2051F-D					●	●	●	●	
AS3001F-D						●	●	●	
AS4001F-D							●	●	
ASD230F-D	M5			●	●	●	●	●	244
ASD330F-D	1/8				●	●	●	●	
ASD430F-D	1/4					●	●	●	
ASD530F-D	1/4						●	●	
ASD530F-D	3/8							●	
ASD630F-D	1/2							●	

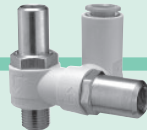
Universal type



In-line type



Dual speed controller



- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Tamper Proof Speed Controller

Elbow type



Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS12□1F-T	M5		●	●	●				245
AS22□1F-T	1/8, 1/4		●	●	●	●	●		
AS32□1F-T	1/4, 3/8			●	●	●	●	●	
AS42□1F-T	1/2				●	●	●	●	

Universal type



Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS13□1F-T	M5		●	●	●				245
AS23□1F-T	1/8, 1/4		●	●	●	●	●		
AS33□1F-T	1/4, 3/8			●	●	●	●	●	
AS43□1F-T	1/2				●	●	●	●	

In-line type



Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS1001F-T			●	●	●				247
AS2001F-T				●	●				
AS2051F-T					●	●			
AS3001F-T						●	●	●	
AS4001F-T							●	●	

Dual speed controller



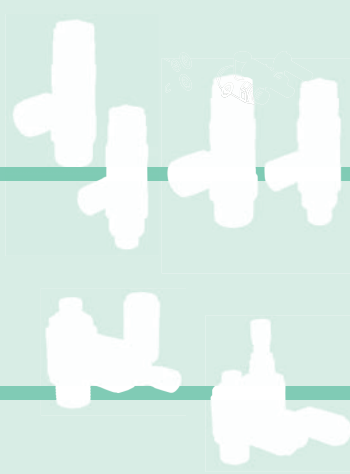
Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
ASD230F-T	M5			●	●				248
ASD330F-T	1/8				●	●			
ASD430F-T	1/4					●	●	●	
ASD530F-T	1/4					●	●	●	
ASD530F-T	3/8						●	●	
ASD630F-T	1/2							●	

Speed Controller with Pilot Check Valve



Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
ASP330F-01	1/8				●	●			249
ASP430F-02	1/4					●	●		
ASP530F-03	3/8						●	●	
ASP630F-04	1/2							●	

Air Saving Speed Controller



Model	Port size in the cylinder side	Applicable tubing O.D. Metric size [mm]							Page
		2	3.2	4	6	8	10	12	
AS22R-□01-□	1/8				●	●			251
AS22R/Q-□02-□	1/4					●	●		
AS32R/Q-□02-□	1/4						●	●	
AS32R/Q-□03-□	3/8							●	
AS42R/Q-□03-□	3/8							●	
AS42R/Q-□04-□	1/2							●	
ASR/Q430F-02-□	1/4					●	●	●	252
ASR/Q530F-02-□	1/4						●	●	
ASR/Q530F-03-□	3/8							●	
ASR/Q630F-03-□	3/8							●	
ASR/Q630F-04-□	1/2							●	

Related Products

Holder for Speed Controller/ TMH Series



Model	Applicable tubing for speed controller	Page
Metric size		254
TMH-23J	Ø 3.2	
TMH-04J	Ø 4	
TMH-06J	Ø 6	
TMH-06	Ø 6	
TMH-08	Ø 8	
TMH-10	Ø 10	
TMH-12	Ø 12	

Residual Pressure Release Valve with One-touch Fittings /Series KE□

With One-touch fittings without a push button guard
KEA Series



Model	Port size	Page
KEA06	Ø 6	254
KEA08	Ø 8	
KEA10	Ø 10	
KEA12	Ø 12	

With One-touch fittings with a push button guard
KEB Series



Model	Port size	Page
KEB06	Ø 6	254
KEB08	Ø 8	
KEB10	Ø 10	
KEB12	Ø 12	

Rc thread with a push button guard
KEC Series



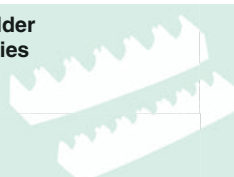
Model	Port size	Page
KEC-02	1/4	254
KEC-03	3/8	

Metering valve with silencer
ASN2 Series



Model	Port size	Page
ASN2-M5	M5	255
ASN2-01	1/8	
ASN2-02	1/4	
ASN2-03	3/8	
ASN2-04	1/2	

Multi-holder
TMA Series



Model	Page
TMA-04	254
TMA-06	
TMA-08	
TMA-10	
TMA-12	

Quick exhaust valve with One-touch fittings
AQ□F Series



Model	Applicable tubing	Page
AQ240F-04	04	255
AQ240F-06	06	
AQ340F-06	06	

Speed exhaust controller
ASV Series



Model	Port size	Page
ASV120F-M3	M3	250
ASV220F-M5	M5	
ASV310F	1/8, 1/4	
ASV410F	1/8, 1/4, 3/8	
ASV510F	1/4, 3/8, 1/2	

Bushing type check valve with One-touch fittings
Straight type,
Male connector type
AKH Series



Model	Port size	Page
AKH04	M5, 1/8	256
AKH06	M5, 1/8, 1/4	
AKH08	1/8, 1/4, 3/8	
AKH10	1/4, 3/8, 1/2	
AKH12	3/8, 1/2	

Bushing type
AKB Series



Model	Port size	Page
AKB01	1/8	256
AKB02	1/4	
AKB03	3/8	
AKB04	1/2	

Check Valve
INA/XTO Series



Model	Port size	Page
INA-14-290	1/8	256
INA-14-□	1/4, 3/8, 1/2	
XTO-674-□□	1/4, 3/8, 1/2	

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/
FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller with One-touch Fitting RoHS

Push-lock type

AS□□□1F-A Series

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M, R

How to Order

Type

2	Elbow
3	Universal

Body size

1	M5 x 0.8
---	----------

Width across flats (H)

E Note 1)	8 mm
—	9 mm

Note 1) Not available for M3

Port size

M5	M5 x 0.8
M3 Note 1)	M3 x 0.5

Note 1) For M3, only Elbow Type available. Add "-X790" at the end.

Applicable tubing O.D. Note 1)

Metric size

02	Ø 2
23	Ø 3.2 Note 2)
04	Ø 4
06	Ø 6

Note 1) For selecting applicable tubing O.D., refer to "Model" on the table below.
Note 2) Use Ø 1/8" tube.

Body size 1 AS 1 2 0 1 F - M5 E - 06 A - []

Body size 2/3/4 AS 2 2 0 1 F - 01 - 06 S A - []

Body size

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

Port size

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

Control type Note)

0	Meter-out
1	Meter-in

Note) Meter-out and meter-in types can be visually identified by colour of the knob.
Meter-out: Grey
Meter-in: Light blue

Applicable tubing O.D. Note 1)

Metric size

23	Ø 3.2 Note 2)
04	Ø 4
06	Ø 6
08	Ø 8
10	Ø 10
12	Ø 12
16	Ø 16

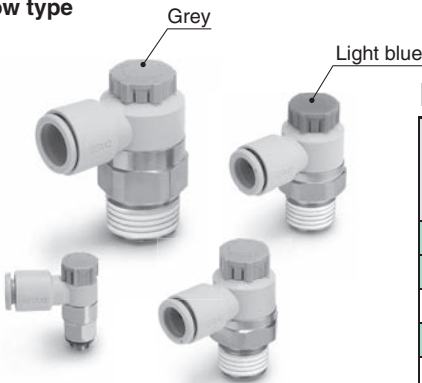
Made to Order
Refer to next page for details.

Push-lock type

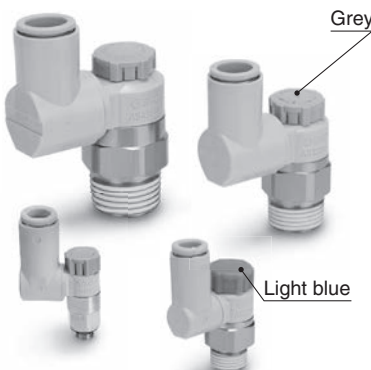
Seal method

—	Without sealant
S	With sealant

Elbow type



Universal type



Note 1) For selecting applicable tubing O.D., refer to "Model" on the table below.
Note 2) Use Ø 1/8" tube.

Model

Port size	Applicable tubing O.D.							Elbow type		Universal type		
	Metric size							Meter-out	Meter-in	Meter-out	Meter-in	
	2 Note 2)	3.2	4	6	8	10	12	16				
M3 x 0.5	●	●	●	●					AS1201F-M3-□-X790	AS1211F-M3-□-X790	—	—
M5 x 0.8 Note 1)	●	●	●	●					AS1201F-M5E	AS1211F-M5E	AS1301F-M5E	AS1311F-M5E
R 1/8		●	●	●	●	●			AS2201F-01	AS2211F-01	AS2301F-01	AS2311F-01
R 1/4			●	●	●	●			AS2201F-02	AS2211F-02	AS2301F-02	AS2311F-02
R 1/4				●	●	●	●		AS3201F-02	AS3211F-02	AS3301F-02	AS3311F-02
R 3/8				●	●	●	●		AS3201F-03	AS3211F-03	AS3301F-03	AS3311F-03
R 1/2					●	●	●	●	AS4201F-04	AS4211F-04	AS4301F-04	AS4311F-04

Note 1) Universal type is not available.
Note 2) Only polyurethane tubing is applicable for Ø 2.

Specifications

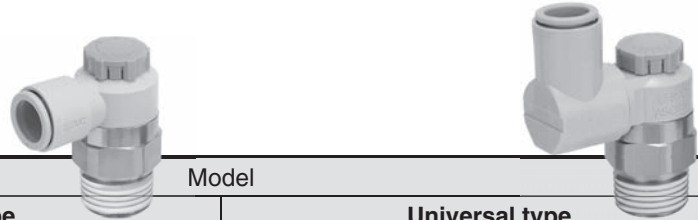
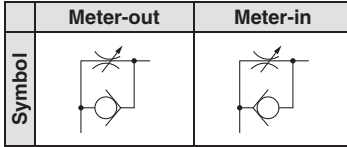
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane Note), FEP, PFA

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(Refer to the WEB catalogue at www.smc.eu for details)

Elbow Type/Universal Type

AS□□□1F-A

Symbol
Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Connection thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 2	M5 x 0.8	AS1201F-M5E-02A	AS1211F-M5E-02A	—	—
Ø 3.2	M5 x 0.8	AS1201F-M5E-23A	AS1211F-M5E-23A	AS1301F-M5E-23A	AS1311F-M5E-23A
	R 1/8	AS2201F-01-23A	AS2211F-01-23A	AS2301F-01-23A	AS2311F-01-23A
Ø 4	M5 x 0.8	AS1201F-M5E-04A	AS1211F-M5E-04A	AS1301F-M5E-04A	AS1311F-M5E-04A
	R 1/8	AS2201F-01-04SA	AS2211F-01-04SA	AS2301F-01-04SA	AS2311F-01-04SA
	R 1/4	AS2201F-02-04SA	AS2211F-02-04SA	AS2301F-02-04SA	AS2311F-02-04SA
Ø 6	M5 x 0.8	AS1201F-M5E-06A	AS1211F-M5E-06A	AS1301F-M5E-06A	AS1311F-M5E-06A
	R 1/8	AS2201F-01-06SA	AS2211F-01-06SA	AS2301F-01-06SA	AS2311F-01-06SA
	R 1/4	AS2201F-02-06SA	AS2211F-02-06SA	AS2301F-02-06SA	AS2311F-02-06SA
		AS3201F-02-06SA	AS3211F-02-06SA	AS3301F-02-06SA	AS3311F-02-06SA
R 3/8	AS3201F-03-06SA	AS3211F-03-06SA	AS3301F-03-06SA	AS3311F-03-06SA	
Ø 8	R 1/8	AS2201F-01-08SA	AS2211F-01-08SA	AS2301F-01-08SA	AS2311F-01-08SA
	R 1/4	AS2201F-02-08SA	AS2211F-02-08SA	AS2301F-02-08SA	AS2311F-02-08SA
		AS3201F-02-08SA	AS3211F-02-08SA	AS3301F-02-08SA	AS3311F-02-08SA
R 3/8	AS3201F-03-08SA	AS3211F-03-08SA	AS3301F-03-08SA	AS3311F-03-08SA	
Ø 10	R 1/8	AS2201F-01-10SA	AS2211F-01-10SA	—	—
	R 1/4	AS2201F-02-10SA	AS2211F-02-10SA	AS2301F-02-10SA	AS2311F-02-10SA
		AS3201F-02-10SA	AS3211F-02-10SA	AS3301F-02-10SA	AS3311F-02-10SA
	R 3/8	AS3201F-03-10SA	AS3211F-03-10SA	AS3301F-03-10SA	AS3311F-03-10SA
R 1/2	AS4201F-04-10SA	AS4211F-04-10SA	AS4301F-04-10SA	AS4311F-04-10SA	
Ø 12	R 1/4	AS3201F-02-12SA	AS3211F-02-12SA	AS3301F-02-12SA	AS3311F-02-12SA
	R 3/8	AS3201F-03-12SA	AS3211F-03-12SA	AS3301F-03-12SA	AS3311F-03-12SA
	R 1/2	AS4201F-04-12SA	AS4211F-04-12SA	AS4301F-04-12SA	AS4311F-04-12SA
Ø 16	R 1/2	AS4201F-04-16SA	AS4211F-04-16SA	—	—

Refer to the **WEB catalogue** at www.smc.eu for inch size.

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

0 For M3 -X790

Example) AS1201F-M3-23A-X790

1 Lubricant: Vaseline -X12

Example) AS2201F-01-04SA-X12

3 Restrictor (Without check valve) -X214

Example) AS2201F-01-04SA-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) -X21

Example) AS2201F-01-04SA-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

Note 3) Only the needle and O-ring are fluorine-coated.

4 Clean Series 10-

Example) 10-AS2201F-01-04SA

Note 1) Fluorine grease is used.

Note 2) The particulate generation class is 5.

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller with One-touch Fitting

RoHS

Push-lock type Face seal

AS□□□1F-A Series

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : G, R

How to Order

G thread
AS 2 2 0 1 F - G 01 - 06 A - □

R thread
AS 2 2 0 1 F - 01 - 06 P A - □

Type
2 Elbow
3 Universal

Thread type
G G

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

Type
2 Elbow

Control type
0 Meter-out
1 Meter-in

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

Seal method
P Face seal

Applicable tubing O.D. ^{Note 1)}
Metric size
23 Ø 3.2 ^{Note 2)}
04 Ø 4
06 Ø 6
08 Ø 8
10 Ø 10
12 Ø 12
16 Ø 16 ^{Note 3)}

Symbol
Flow Direction Symbols on Body

	Meter-out	Meter-in
Symbol		

Made to Order
Refer to next page for details.

Push-lock type

Note 1) For selecting applicable tubing O.D., refer to the "Model" on the table below.
Note 2) Use Ø 1/8" tube.
Note 3) Only G thread.

Elbow type



Universal type



Model

Port size	Applicable tubing O.D.						Elbow type		Universal type	
	Metric size						Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10	12				
G 1/8	●	●	●	●	● ^{Note)}		AS2201F-G01	AS2211F-G01	AS2301F-G01	AS2311F-G01
G 1/4	● ^{Note)}	●	●	●	●		AS2201F-G02	AS2211F-G02	AS2301F-G02	AS2311F-G02
G 1/4			●	●	●	●	AS3201F-G02	AS3211F-G02	AS3301F-G02	AS3311F-G02
G 3/8			●	●	●	●	AS3201F-G03	AS3211F-G03	AS3301F-G03	AS3311F-G03
G 1/2					●	● ^{Note)}	AS4201F-G04	AS4211F-G04	AS4301F-G04	AS4311F-G04
R 1/8	●	●	●	●	●		AS2201F-01-□PA	AS2211F-01-□PA	—	—
R 1/4	●	●	●	●	●		AS2201F-02-□PA	AS2211F-02-□PA	—	—
R 3/8			●	●	●	●	AS3201F-03-□PA	AS3211F-03-□PA	—	—
R 1/2					●	●	AS4201F-04-□PA	AS4211F-04-□PA	—	—

Note) Universal type is not available.

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	Nylon, Soft nylon, Polyurethane ^{Note)} , FEP, PFA

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(Refer to the WEB catalogue at www.smc.eu for details)

Elbow Type/Universal Type

AS□□□1F-A

Applicable tubing O.D. [mm]	Connection thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	G 1/8	AS2201F-G01-23A	AS2211F-G01-23A	AS2301F-G01-23A	AS2311F-G01-23A
	G 1/4	AS2201F-G02-23A	AS2211F-G02-23A	—	—
	R 1/8	AS2201F-01-23PA	AS2211F-01-23PA	—	—
	R 1/4	AS2201F-02-23PA	AS2211F-02-23PA	—	—
Ø 4	G 1/8	AS2201F-G01-04A	AS2211F-G01-04A	AS2301F-G01-04A	AS2311F-G01-04A
	G 1/4	AS2201F-G02-04A	AS2211F-G02-04A	AS2301F-G02-04A	AS2311F-G02-04A
	R 1/8	AS2201F-01-04PA	AS2211F-01-04PA	—	—
	R 1/4	AS2201F-02-04PA	AS2211F-02-04PA	—	—
Ø 6	G 1/8	AS2201F-G01-06A	AS2211F-G01-06A	AS2301F-G01-06A	AS2311F-G01-06A
	G 1/4	AS2201F-G02-06A	AS2211F-G02-06A	AS2301F-G02-06A	AS2311F-G02-06A
		AS3201F-G02-06A	AS3211F-G02-06A	AS3301F-G02-06A	AS3311F-G02-06A
	G 3/8	AS3201F-G03-06A	AS3211F-G03-06A	AS3301F-G03-06A	AS3311F-G03-06A
	R 1/8	AS2201F-01-06PA	AS2211F-01-06PA	—	—
	R 1/4	AS2201F-02-06PA	AS2211F-02-06PA	—	—
Ø 8	R 3/8	AS3201F-03-06PA	AS3211F-03-06PA	—	—
	G 1/8	AS2201F-G01-08A	AS2211F-G01-08A	AS2301F-G01-08A	AS2311F-G01-08A
	G 1/4	AS2201F-G02-08A	AS2211F-G02-08A	AS2301F-G02-08A	AS2311F-G02-08A
		AS3201F-G02-08A	AS3211F-G02-08A	AS3301F-G02-08A	AS3311F-G02-08A
	G 3/8	AS3201F-G03-08A	AS3211F-G03-08A	AS3301F-G03-08A	AS3311F-G03-08A
	R 1/8	AS2201F-01-08PA	AS2211F-01-08PA	—	—
Ø 10	R 1/4	AS2201F-02-08PA	AS2211F-02-08PA	—	—
	R 3/8	AS3201F-03-08PA	AS3211F-03-08PA	—	—
	G 1/8	AS2201F-G01-10A	AS2211F-G01-10A	—	—
	G 1/4	AS2201F-G02-10A	AS2211F-G02-10A	AS2301F-G02-10A	AS2311F-G02-10A
		AS3201F-G02-10A	AS3211F-G02-10A	AS3301F-G02-10A	AS3311F-G02-10A
	G 3/8	AS3201F-G03-10A	AS3211F-G03-10A	AS3301F-G03-10A	AS3311F-G03-10A
Ø 12	G 1/2	AS4201F-G04-10A	AS4211F-G04-10A	AS4301F-G04-10A	AS4311F-G04-10A
	R 1/8	AS2201F-01-10PA	AS2211F-01-10PA	—	—
	R 1/4	AS2201F-02-10PA	AS2211F-02-10PA	—	—
	R 3/8	AS3201F-03-10PA	AS3211F-03-10PA	—	—
	R 1/2	AS4201F-04-10PA	AS4211F-04-10PA	—	—
	Ø 16	G 1/4	AS3201F-G02-12A	AS3211F-G02-12A	AS3301F-G02-12A
G 3/8		AS3201F-G03-12A	AS3211F-G03-12A	AS3301F-G03-12A	AS3311F-G03-12A
G 1/2		AS4201F-G04-12A	AS4211F-G04-12A	AS4301F-G04-12A	AS4311F-G04-12A
R 3/8		AS3201F-03-12PA	AS3211F-03-12PA	—	—
R 1/2		AS4201F-04-12PA	AS4211F-04-12PA	—	—

Refer to the WEB catalogue at www.smc.eu for inch size.

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline -X12

Example) AS2201F-G01-04A-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) -X21

Example) AS2201F-G01-04A-X21

Note 1) Not particle-free
Note 2) The restrictor is only compatible with the part number of the meter-out type.
Note 3) Only the needle and O-ring are fluorine-coated.

3 Restrictor (Without check valve) -X214

Example) AS2201F-G01-04A-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

4 Clean Series 10-

Example) 10-AS2201F-G01-04A

Note 1) Fluorine grease is used.
Note 2) The particulate generation class is 5.

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller with One-touch Fitting

RoHS

Push-lock type
AS Series

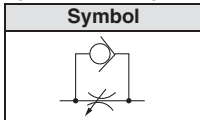
In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order



Flow Direction
Symbol on Body



AS 200 2 F - 06 A

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

With One-touch fittings

Metric size	
23	∅ 3.2*1
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

*1: Use ∅ 1/8" tubing.

Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1002F-□A	●	●	●			
AS2002F-□A		●	●			
AS2052F-□A			●	●		
AS3002F-□A			●	●	●	●
AS4002F-□A					●	●

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	Nylon, Soft nylon, Polyurethane*1, FEP, PFA

*1: Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the catalogue at www.smc.eu for details.)

Applicable tubing O.D. [mm]	Model
∅ 3.2	AS1002F-23A
∅ 4	AS1002F-04A
	AS2002F-04A
∅ 6	AS1002F-06A
	AS2002F-06A
	AS2052F-06A
	AS3002F-06A
∅ 8	AS2052F-08A
	AS3002F-08A
∅ 10	AS3002F-10A
	AS4002F-10A
∅ 12	AS3002F-12A
	AS4002F-12A

Speed Controller with Indicator

RoHS

Speed
Controllers

AS-FS Series

Push-lock type

Elbow / Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M, R, G



How to Order

Width across flats (H)

E	8 mm
—	9 mm

Body size

1	M5 x 0.8
---	----------

Port size

M5	M5 x 0.8
----	----------

Applicable tubing O.D. (Note 1)

Metric size

02	∅ 2
23	∅ 3.2 (Note 2)
04	∅ 4
06	∅ 6

Note 1) For selecting applicable tubing O.D., refer to "Model".
Note 2) Use ∅ 1/8" tube.

Body size 1 AS 1 2 0 1 FS — M5 E — 06 —

Body size 2/3/4 AS 2 2 0 1 FS — 01 — 06 S —

Body size

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

Type

2	Elbow
3	Universal

Control type (Note)

0	Meter-out
1	Meter-in

Thread type

—	R
G	G

Indicator window direction

		Elbow	Universal
—	0°	●	—
1	180°	●	●
2	90°	●	—
3	270°	●	—

Port size

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

Seal method

—	Without sealant
S	With sealant

Note) Face seal type is used for the G thread type. Select "—" : Without sealant" option.
Example) AS2201FS-G01-06

Made to Order
Refer to the next page for details.

Applicable tubing O.D. (Note 1)

Metric size

23	∅ 3.2 (Note 2)	10	∅ 10
04	∅ 4	12	∅ 12
06	∅ 6	16	∅ 16
08	∅ 8		

Note 1) For selecting applicable tubing O.D., refer to "Model".
Note 2) Use ∅ 1/8" tube.

Symbol

Flow Direction Symbols on Body

	Meter-out	Meter-in
Symbol		

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	Nylon, Soft nylon, Polyurethane (Note), FEP, PFA

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(Refer to the WEB catalogue at www.smc.eu for details)



AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/
FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R

AS-Q

Related

Elbow Type

AS-FS



Model

Model	Port size	Applicable tubing O.D.							
		Metric size							
		2 ^{Note 1)}	3.2	4	6	8	10	12	16
AS1□□1FS□-M5□	M5 x 0.8	● ^{Note 2)}	●	●	●				
AS1□□1FS□-U10/32□	10-32UNF	● ^{Note 2)}	●	●	●				
AS2□□1FS□-□01	R G	1/8	●	●	●	●	● ^{Note 2)}		
AS2□□1FS□-□02		1/4	● ^{Note 2)}	●	●	●	●		
AS3□□1FS□-□02		1/4			●	●	●	●	
AS3□□1FS□-□03		3/8			●	●	●	●	
AS4□□1FS□-□04		1/2					●	●	● ^{Note 2)}

Note 1) Only polyurethane tubing is applicable for Ø 2.

Note 2) Universal type is not available.



Applicable tubing O.D. [mm]	Connection thread	Model 		Model 	
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 2	M5 x 0.8	AS1201FS-M5E-02	AS1211FS-M5E-02	—	—
Ø 3.2	M5 x 0.8	AS1201FS-M5E-23	AS1211FS-M5E-23	AS1301FS-M5-23	AS1311FS-M5-23
	R 1/8	AS2201FS-01-23	AS2211FS-01-23	AS2301FS-01-23S	AS2311FS-01-23S
Ø 4	M5 x 0.8	AS1201FS-M5E-04	AS1211FS-M5E-04	AS1301FS-M5-04	AS1311FS-M5-04
	R 1/8	AS2201FS-01-04S	AS2211FS-01-04(S)	AS2301FS-01-04S	AS2311FS-01-04
	R 1/4	AS2201FS-02-04S	AS2211FS-02-04(S)	AS2301FS-02-04S	AS2311FS-02-04
Ø 6	M5 x 0.8	AS1201FS-M5E-06	AS1211FS-M5E-06	AS1301FS-M5-06	AS1311FS-M5-06
	R 1/8	AS2201FS-01-06S	AS2211FS-01-06(S)	AS2301FS-01-06S	AS2311FS-01-06
	R 1/4	AS2201FS-02-06S	AS2211FS-02-06(S)	AS2301FS-02-06S	AS2311FS-02-06
		AS3201FS-02-06S	AS3211FS-02-06(S)	AS3301FS-02-06S	AS3311FS-02-06
R 3/8	AS3201FS-03-06S	AS3211FS-03-06(S)	AS3301FS-03-06S	AS3311FS-03-06	
Ø 8	R 1/8	AS2201FS-01-08S	AS2211FS-01-08(S)	AS2301FS-01-08S	AS2311FS-01-08
	R 1/4	AS2201FS-02-08S	AS2211FS-02-08(S)	AS2301FS-02-08S	AS2311FS-02-08
		AS3201FS-02-08S	AS3211FS-02-08(S)	AS3301FS-02-08S	AS3311FS-02-08
	R 3/8	AS3201FS-03-08S	AS3211FS-03-08(S)	AS3301FS-03-08S	AS3311FS-03-08
Ø 10	R 1/8	AS2201FS-01-10S	AS2211FS-01-10(S)	AS2301FS-01-10S	AS2311FS-01-10
	R 1/4	AS2201FS-02-10S	AS2211FS-02-10(S)	—	—
		AS3201FS-02-10S	AS3211FS-02-10(S)	AS3301FS-02-10S	AS3311FS-02-10
	R 3/8	AS3201FS-03-10S	AS3211FS-03-10(S)	AS3301FS-03-10S	AS3311FS-03-10
R 1/2	AS4201FS-04-10S	AS4211FS-04-10(S)	AS4301FS-04-10S	AS4311FS-04-10	
Ø 12	R 1/4	AS3201FS-02-12S	AS3211FS-02-12(S)	AS3301FS-02-12S	AS3311FS-02-12
	R 3/8	AS3201FS-03-12S	AS3211FS-03-12(S)	AS3301FS-03-12S	AS3311FS-03-12
	R 1/2	AS4201FS-04-12S	AS4211FS-04-12(S)	AS4301FS-04-12S	AS4311FS-04-12
Ø 16	R 1/2	AS4201FS-04-16S	AS4211FS-04-16(S)	—	—

Refer to the WEB catalogue at www.smc.eu for inch size.

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline -X12

Example) AS2201FS-01-04S-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) -X21

Example) AS2201FS-01-04S-X21

Note 1) Not particle-free
 Note 2) The restrictor is only compatible with the part number of the meter-out type.
 Note 3) Only the needle and O-ring are fluorine-coated.

3 Restrictor (Without check valve) -X214

Example) AS2201FS-01-04S-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

4 Clean Series 10-

Example) 10-AS2201FS-01-04S

Note 1) Fluorine grease is used.
 Note 2) The particulate generation class is 5.

Speed Controller with Indicator

RoHS

Speed
Controllers

Push-lock type
AS-FS Series

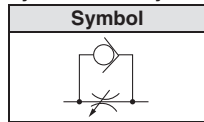
In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order



Flow Direction
Symbol on Body



AS 200 2 F S 1 - 06

Body size

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

With One-touch fittings

With indicator

Applicable tubing O.D.*1

Metric size	
23	∅ 3.2*1
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

*1: Use ∅ 1/8" tubing.

Indicator window direction

—	0°		2	90°	
1	180°		3	270°	

Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1002FS□	●	●	●			
AS2002FS□		●	●			
AS2052FS□			●	●		
AS3002FS□			●	●	●	●
AS4002FS□					●	●

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	Nylon, Soft nylon, Polyurethane*1, FEP, PFA

*1: Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the catalogue at www.smc.eu for details.)

Applicable tubing O.D. [mm]	Model
∅ 3.2	AS1002FS-23
∅ 4	AS1002FS-04
	AS2002FS-04
∅ 6	AS1002FS-06
	AS2002FS-06
	AS2052FS-06
	AS3002FS-06
∅ 8	AS2052FS-08
	AS3002FS-08
∅ 10	AS3002FS-10
	AS4002FS-10
∅ 12	AS3002FS-12
	AS4002FS-12

AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/
FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R

AS-Q

Related

Speed Controller with One-touch Fitting

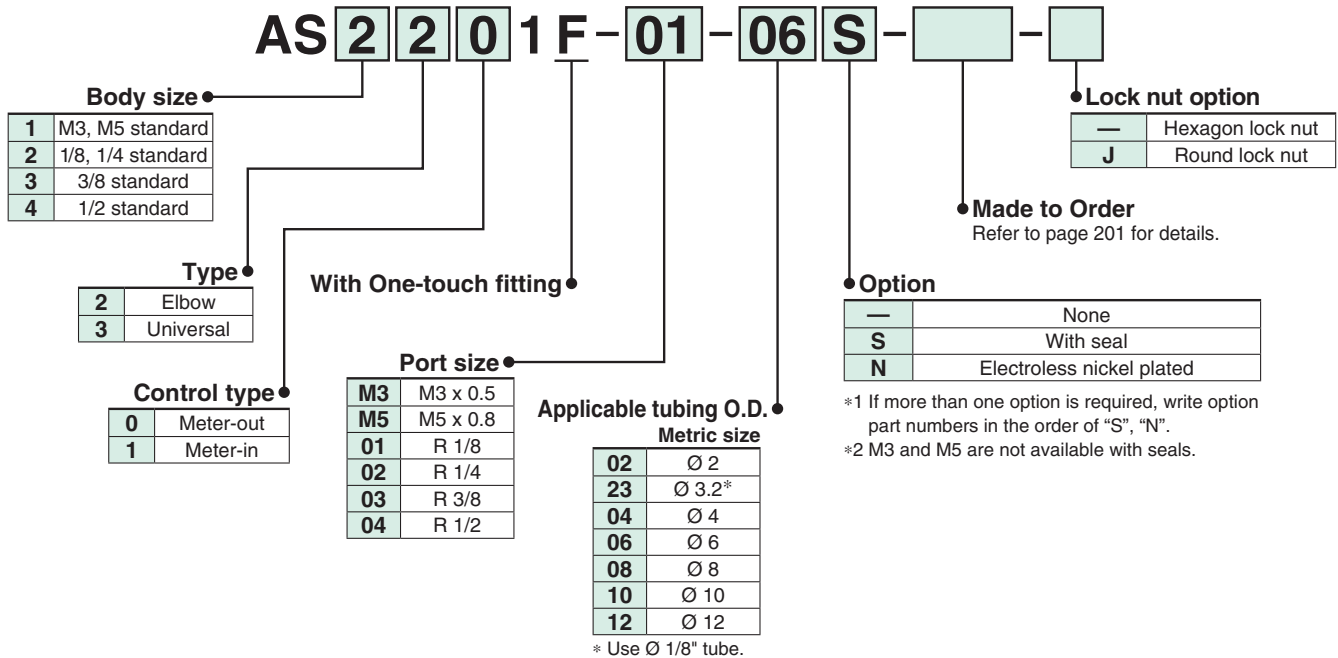
RoHS

AS□□□1F Series

Elbow Type/Universal Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M, R

How to Order



* Use ∅ 1/8" tube.

Elbow type



Model

Models marked with are electroless nickel plated as standard. (N specifications)

Port size	Applicable tubing O.D.							Elbow type		Universal type	
	Metric size							Meter-out	Meter-in	Meter-out	Meter-in
	2	3.2	4	6	8	10	12				
M3 x 0.5 <small>Note 1)</small>								AS1201F-M3	AS1211F-M3	AS1301F-M3	AS1311F-M3
M5 x 0.8 <small>Note 1)</small>								AS1201F-M5	AS1211F-M5	AS1301F-M5	AS1311F-M5
R 1/8							<small>Note 1)</small>	AS2201F-01	AS2211F-01	AS2301F-01	AS2311F-01
R 1/4								AS2201F-02	AS2211F-02	AS2301F-02	AS2311F-02
R 1/4								AS3201F-02	AS3211F-02	AS3301F-02	AS3311F-02
R 3/8								AS3201F-03	AS3211F-03	AS3301F-03	AS3311F-03
R 1/2								AS4201F-04	AS4211F-04	AS4301F-04	AS4311F-04

Note 1) Elbow type only

Note 2) Meter-out and meter-in types can be visually differentiated by the lock nut. The lock nut on the meter-out type is zinc chromated (the round lock nut is electroless nickel plated), while the meter-in type is black zinc chromate plated.

Universal type



Specifications

Fluid	Air
Proof pressure	1.5 MPa (1.05 MPa <small>Note 1)</small>)
Max. operating pressure	1 MPa (0.7 MPa <small>Note 1)</small>)
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material <small>Note 2)</small>	Nylon, Soft nylon, Polyurethane <small>Note 3)</small>
Option	With seal <small>Note 4)</small> , Round lock nut, Electroless nickel plated <small>Note 5)</small>

Note 1) In case of AS12□1F-M3-02, AS12□1F-M5-02

Note 2) Use caution regarding the max. operating pressure when soft nylon or polyurethane tubing is used. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 3) In case of AS12□1F-M3-02 and AS12□1F-M5-02, polyurethane only.

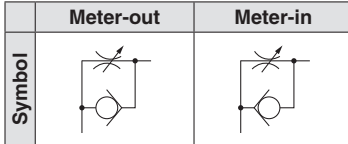
Note 4) M3, M5 type ports are not available with seals.

Note 5) Brass parts are all electroless nickel plated.

Elbow Type/Universal Type

AS□□□1F

Symbol
Flow Direction Symbols on Body



* Photo shows the model without seal.



Applicable tubing O.D. [mm]	Connection thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 2	M3 x 0.5	AS1201F-M3-02	AS1211F-M3-02	—	—
	M5 x 0.8	AS1201F-M5-02	AS1211F-M5-02	—	—
Ø 3.2	M3 x 0.5	AS1201F-M3-23	AS1211F-M3-23	AS1301F-M3-23	AS1311F-M3-23
	M5 x 0.8	AS1201F-M5-23	AS1211F-M5-23	AS1301F-M5-23	AS1311F-M5-23
	R 1/8	AS2201F-01-23	AS2211F-01-23	AS2301F-01-23	AS2311F-01-23
Ø 4	M3 x 0.5	AS1201F-M3-04	AS1211F-M3-04	AS1301F-M3-04	AS1311F-M3-04
	M5 x 0.8	AS1201F-M5-04	AS1211F-M5-04	AS1301F-M5-04	AS1311F-M5-04
	R 1/8	AS2201F-01-04S	AS2211F-01-04S	AS2301F-01-04S	AS2311F-01-04S
	R 1/4	AS2201F-02-04S	AS2211F-02-04S	AS2301F-02-04S	AS2311F-02-04S
Ø 6	M5 x 0.8	AS1201F-M5-06	AS1211F-M5-06	AS1301F-M5-06	AS1311F-M5-06
	R 1/8	AS2201F-01-06S	AS2211F-01-06S	AS2301F-01-06S	AS2311F-01-06S
	R 1/4	AS2201F-02-06S	AS2211F-02-06S	AS2301F-02-06S	AS2311F-02-06S
		AS3201F-02-06S	AS3211F-02-06S	AS3301F-02-06S	AS3311F-02-06S
R 3/8	AS3201F-03-06S	AS3211F-03-06S	AS3301F-03-06S	AS3311F-03-06S	
Ø 8	R 1/8	AS2201F-01-08S	AS2211F-01-08S	AS2301F-01-08S	AS2311F-01-08S
	R 1/4	AS2201F-02-08S	AS2211F-02-08S	AS2301F-02-08S	AS2311F-02-08S
		AS3201F-02-08S	AS3211F-02-08S	AS3301F-02-08S	AS3311F-02-08S
R 3/8	AS3201F-03-08S	AS3211F-03-08S	AS3301F-03-08S	AS3311F-03-08S	
Ø 10	R 1/8	AS2201F-01-10S	AS2211F-01-10S	—	—
	R 1/4	AS2201F-02-10S	AS2211F-02-10S	AS2301F-02-10S	AS2311F-02-10S
		AS3201F-02-10S	AS3211F-02-10S	AS3301F-02-10S	AS3311F-02-10S
	R 3/8	AS3201F-03-10S	AS3211F-03-10S	AS3301F-03-10S	AS3311F-03-10S
R 1/2	AS4201F-04-10S	AS4211F-04-10S	AS4301F-04-10S	AS4311F-04-10S	
Ø 12	R 1/4	AS3201F-02-12S	AS3211F-02-12S	AS3301F-02-12S	AS3311F-02-12S
	R 3/8	AS3201F-03-12S	AS3211F-03-12S	AS3301F-03-12S	AS3311F-03-12S
	R 1/2	AS4201F-04-12S	AS4211F-04-12S	AS4301F-04-12S	AS4311F-04-12S

For inch size, refer to the **WEB catalogue** at www.smc.eu

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related



Made to Order

1 Lubricant: Vaseline X12

Example) AS2201F-01-04S-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) X21

Example) AS2201F-01-04S-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) X214

Example) AS2201F-01-04S-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

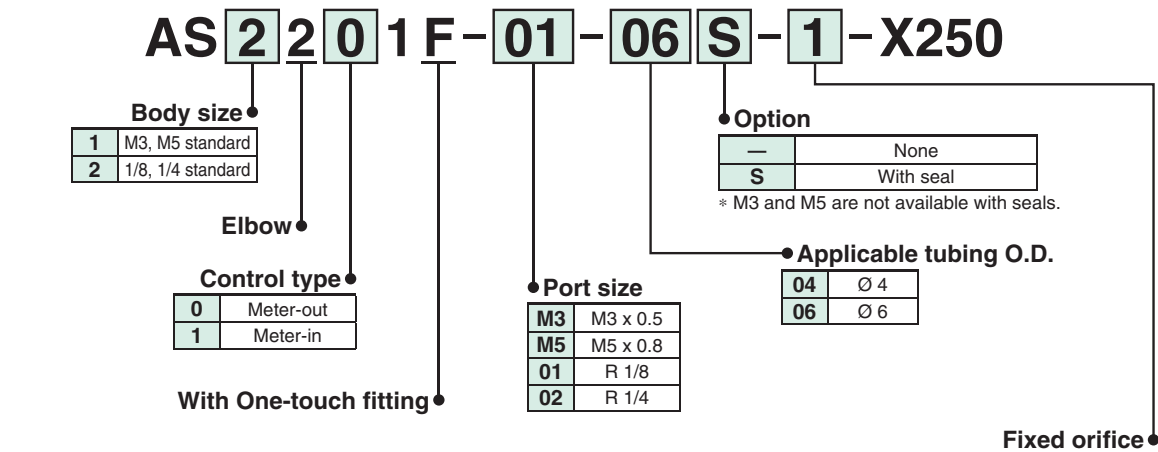
4 Clean Series 10-

Lubricant: Fluorine-based grease Double package

Example) 10-AS2201F-01-06

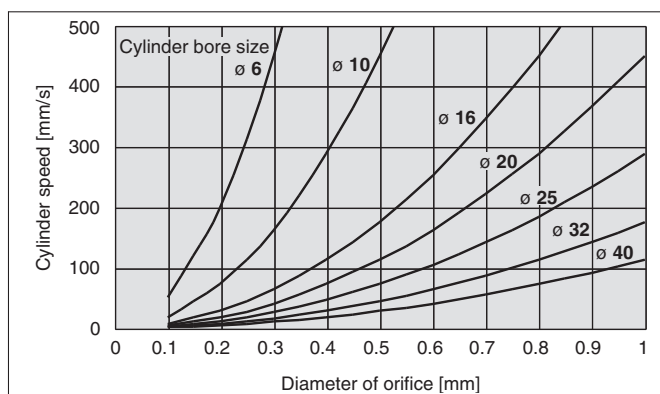
5 Fixed Throttle (No needle function) X250

How to Order



Symbol	Fixed orifice	Applicable model			
		AS12□1F-M3-04	AS12□1F-M5-04 AS12□1F-M5-06	AS22□1F-01-04 AS22□1F-01-06	AS22□1F-02-06
1	Ø 0.1	●	●	●	●
2	Ø 0.2	●	●	●	●
3	Ø 0.3	●	●	●	●
4	Ø 0.4	●	●	●	●
5	Ø 0.5	●	●	●	●
6	Ø 0.6	●	●	●	●
7	Ø 0.7	●	●	●	●
8	Ø 0.8	●	●	●	●
9	Ø 0.9	●	●	●	●
10	Ø 1.0	●	●	●	●

The graph below shows the relationship between orifices for each cylinder bore and cylinder speed. Please refer to it during selection. The cylinder speeds on the graph are theoretical values. Actual values may differ depending on the piping conditions or sliding friction, so please use this graph as a guideline only.



AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-
ASUni-
AS-FSUni-
AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/
FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R
AS-Q

Related

Flame Resistant (Equivalent to UL-94 Standard V-0): Speed Controller with One-touch Fittings

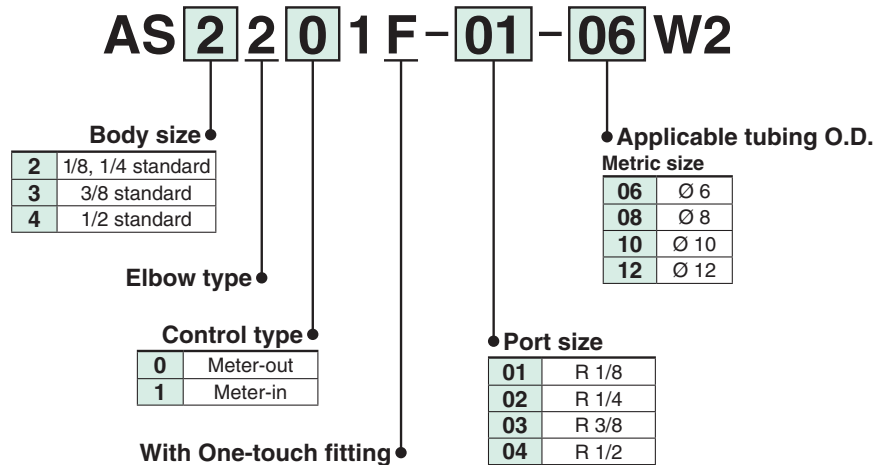
AS□□□1F-W2 Series

Elbow Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : R

Spatter Proof

How to Order



Elbow type



Model

Models marked with "●" are electroless nickel plated as standard. (N specifications)

Port size	Applicable tubing O.D.				Elbow type	
	Metric size				Meter-out	Meter-in
	6	8	10	12		
R 1/8	●	●	●		AS2201F-01-□W2	AS2211F-01-□W2
R 1/4	●	●	●		AS2201F-02-□W2	AS2211F-02-□W2
R 1/4	●	●	●	●	AS3201F-02-□W2	AS3211F-02-□W2
R 3/8	●	●	●	●	AS3201F-03-□W2	AS3211F-03-□W2
R 1/2			●	●	AS4201F-04-□W2	AS4211F-04-□W2

Note) Meter-out and meter-in types can be visually differentiated by the lock nut.

The lock nut on the meter-out type is electroless nickel plated, while the meter-in type is black zinc chromate plated.

Specifications

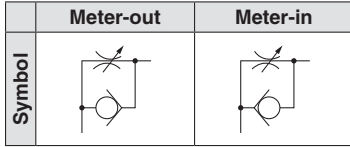
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material ^{Note)}	FR double layer, FR soft nylon

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(For details, refer to the **WEB catalogue** at www.smc.eu)

Elbow Type

AS□□□1F-W2

Symbol
Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Connection thread	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 6	R 1/8	AS2201F-01-06W2	AS2211F-01-06W2
	R 1/4	AS2201F-02-06W2	AS2211F-02-06W2
		AS3201F-02-06W2	AS3211F-02-06W2
R 3/8	AS3201F-03-06W2	AS3211F-03-06W2	
Ø 8	R 1/8	AS2201F-01-08W2	AS2211F-01-08W2
	R 1/4	AS2201F-02-08W2	AS2211F-02-08W2
		AS3201F-02-08W2	AS3211F-02-08W2
R 3/8	AS3201F-03-08W2	AS3211F-03-08W2	
Ø 10	R 1/8	AS2201F-01-10W2	AS2211F-01-10W2
	R 1/4	AS2201F-02-10W2	AS2211F-02-10W2
		AS3201F-02-10W2	AS3211F-02-10W2
	R 3/8	AS3201F-03-10W2	AS3211F-03-10W2
R 1/2	AS4201F-04-10W2	AS4211F-04-10W2	
Ø 12	R 1/4	AS3201F-02-12W2	AS3211F-02-12W2
	R 3/8	AS3201F-03-12W2	AS3211F-03-12W2
	R 1/2	AS4201F-04-12W2	AS4211F-04-12W2

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

AS

AS-FS

AS·1F

AS·P

AS·F

AS-W2D

AS-X737

AS·2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS·1F

AS·FE

AS·FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/
FPG

AS·FM

ASD·FM

AS·F-D

ASD·F-D

AS·F-T

ASD·F-T

ASP

ASV

AS-R
AS-Q

Related

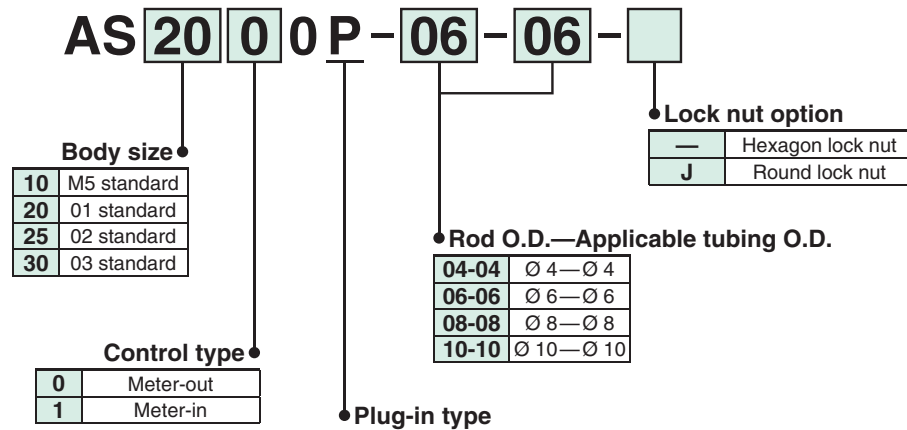
Speed Controller with One-touch Fitting Plug-in Type RoHS

AS□□□□P Series

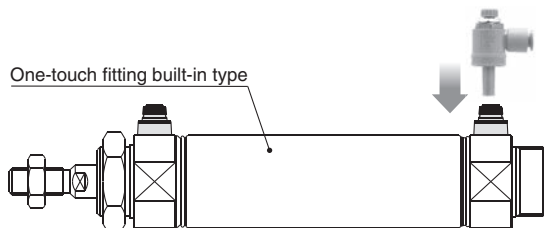
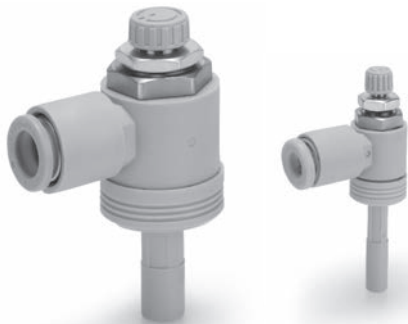
Elbow Type

■ Applicable rod O.D. - tubing O.D. : Metric Size

How to Order



Can be mounted directly to the One-touch fitting!
No need for tools, reducing time required for mounting.



Model

Model		Rod and applicable tubing O.D.			
Meter-out	Meter-in	4	6	8	10
AS1000P-04-04	AS1010P-04-04	●	—	—	—
AS2000P-04-04	AS2010P-04-04	●	—	—	—
AS2000P-06-06	AS2010P-06-06	—	●	—	—
AS2500P-06-06	AS2510P-06-06	—	●	—	—
AS3000P-08-08	AS3010P-08-08	—	—	●	—
AS3000P-10-10	AS3010P-10-10	—	—	—	●

<Visual identification between meter-out and meter-in types>

The lock nut provides identification. The lock nut of the meter-out type is zinc chromated (The round lock nut is electroless nickel plated), and the one of the meter-in type is black zinc chromated.

Specifications

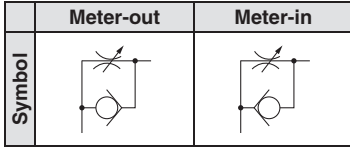
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane

Elbow Type

AS□□□□P

Symbol

Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Applicable rod O.D. [mm]	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 4	Ø 4	AS1000P-04-04	AS1010P-04-04
		AS2000P-04-04	AS2010P-04-04
Ø 6	Ø 6	AS2000P-06-06	AS2010P-06-06
		AS2500P-06-06	AS2510P-06-06
Ø 8	Ø 8	AS3000P-08-08	AS3010P-08-08
Ø 10	Ø 10	AS3000P-10-10	AS3010P-10-10

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

- AS
- AS-FS
- AS-1F
- AS·P**
- AS·F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS·FE
- AS·FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS·FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Metal Body: Speed Controller with One-touch Fitting

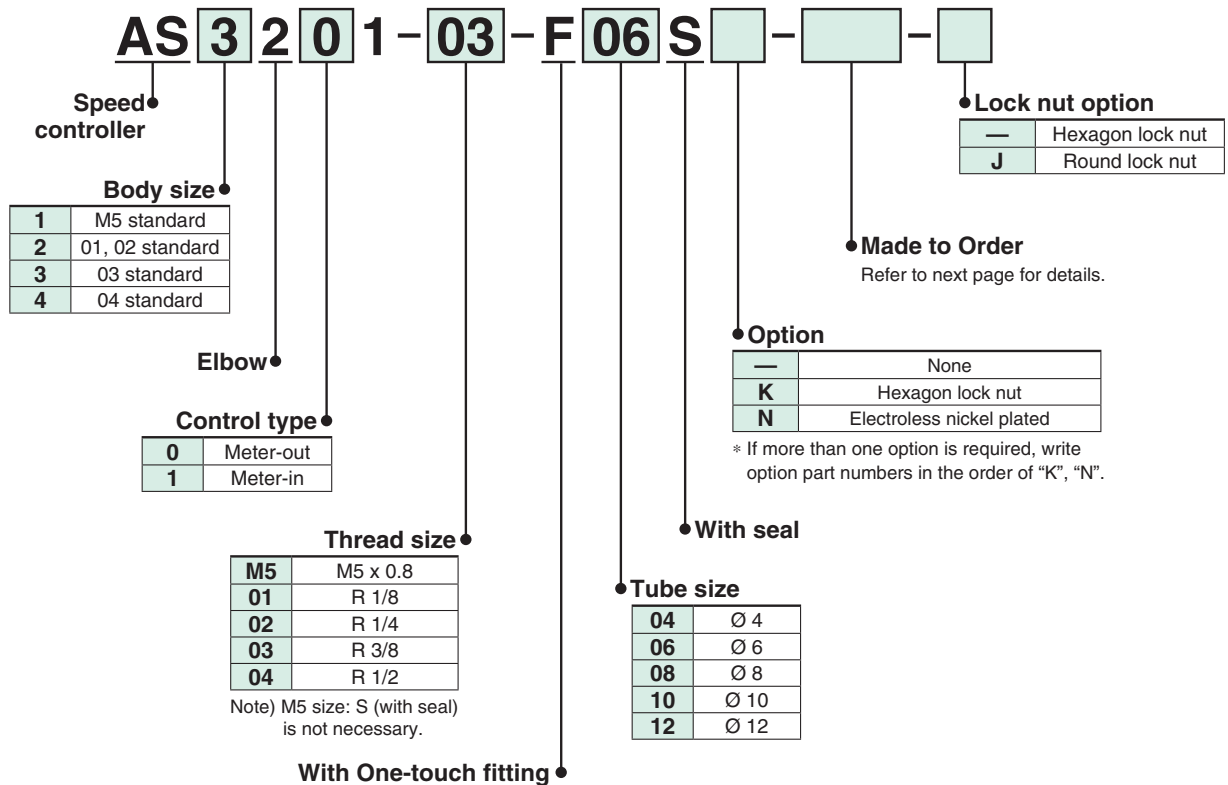
AS□□□1-F Series

Elbow Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

Spatter Proof

How to Order



Flame resistant resin is used for One-touch fittings. (Equivalent to UL-94 Standard V-0)

Elbow type



Model

Models marked with "●" are electroless nickel plated as standard. (N specifications)

Port size	Applicable tubing O.D.					Elbow type	
	Metric size					Meter-out	Meter-in
	4	6	8	10	12		
M5 x 0.8	●	●				AS1201-M5	AS1211-M5
R 1/8		●	●			AS2201-01	AS2211-01
R 1/4		●	●	●		AS2201-02	AS2211-02
R 1/4			●	●		AS3201-02	AS3211-02
R 3/8			●	●		AS3201-03	AS3211-03
R 1/2				●	●	AS4201-04	AS4211-04

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	Nylon, Soft nylon, Polyurethane
Option	Hexagon lock nut, Electroless nickel plated ^{Note)}

Meter-out and meter-in types can be visually differentiated by the lock nut.

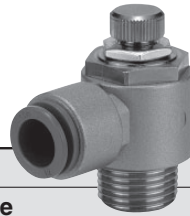
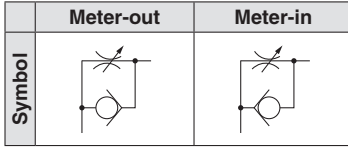
The lock nut on the meter-out type is electroless nickel plated, while the meter-in type is black zinc chromate plated.

Note) Brass parts are all electroless nickel plated.

Elbow Type

AS□□□1-F

Symbol
Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Connection thread	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 4	M5 x 0.8	AS1201-M5-F04	AS1211-M5-F04
Ø 6	M5 x 0.8	AS1201-M5-F06	AS1211-M5-F06
	R 1/8	AS2201-01-F06S	AS2211-01-F06S
	R 1/4	-02-F06S	-02-F06S
Ø 8	R 1/8	AS2201-01-F08S	AS2211-01-F08S
	R 1/4	-02-F08S	-02-F08S
	R 1/4	AS3201-02-F08S	AS3211-02-F08S
	R 3/8	-03-F08S	-03-F08S
Ø 10	R 1/4	AS2201-02-F10S	AS2211-02-F10S
	R 1/4	AS3201-02-F10S	AS3211-02-F10S
	R 3/8	-03-F10S	-03-F10S
	R 1/2	AS4201-04-F10S	AS4211-04-F10S
Ø 12	R 1/2	AS4201-04-F12S	AS4211-04-F12S

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline X12

Example) AS1201-M5-F04-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) X21

Example) AS1201-M5-F04-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) X214

Example) AS1201-M5-F04-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F**
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

AS□2□1F-W2D Series

Elbow Type

■ Applicable tubing O.D. : Metric Size

■ Connection thread : G

How to Order



AS 2 2 0 1 F - G 01 - 06 W2D

Body size

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

Elbow

Control method

0	Meter-out
1	Meter-in

With One-touch fitting

Thread type

G	G thread
---	----------

Port size

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

● Flame resistant flat head screwdriver adjustable Equivalent to UL-94 standard V-O

● Applicable tubing O.D.*1

Metric size

06	Ø 6
08	Ø 8
10	Ø 10
12	Ø 12

*1 For selecting applicable tubing O.D., refer to the Model shown above.

Model

Elbow type	Port size	Applicable tubing O.D.			
		Ø 6	Ø 8	Ø 10	Ø 12
AS22□1F-G01-□W2D	G 1/8	●	●	●	
AS22□1F-G02-□W2D	G 1/4	●	●	●	
AS32□1F-G03-□W2D	G 3/8		●	●	●
AS42□1F-G04-□W2D	G 1/2			●	●

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	FR double layer, FR soft nylon

*1: Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the catalogue at www.smc.eu for details.)

Applicable tubing O.D. [mm]	Model	
	Meter-out	Meter-in
Ø 6	AS2201F-G01-06W2D	AS2211F-G01-06W2D
	AS2201F-G02-06W2D	AS2211F-G02-06W2D
Ø 8	AS2201F-G01-08W2D	AS2211F-G01-08W2D
	AS2201F-G02-08W2D	AS2211F-G02-08W2D
	AS3201F-G03-08W2D	AS3211F-G03-08W2D
Ø 10	AS2201F-G01-10W2D	AS2211F-G01-10W2D
	AS2201F-G02-10W2D	AS2211F-G02-10W2D
	AS3201F-G03-10W2D	AS3211F-G03-10W2D
	AS4201F-G04-10W2D	AS4211F-G04-10W2D
Ø 12	AS3201F-G03-12W2D	AS3211F-G03-12W2D
	AS4201F-G04-12W2D	AS4211F-G04-12W2D

All Metal Exterior Speed Controller

AS-X737 Series

Elbow Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : R

How to Order



AS 3 2 0 1 - 03 - F 08 S - X737

Body size

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

Control type

0	Meter-out
1	Meter-in

Thread size

01	R 1/8
02	R 1/4
03	R 3/8

• With sealant

All metal exterior

Applicable tubing O.D. (Note)

06	Ø 6
08	Ø 8
10	Ø 10

Note) For selecting applicable tubing O.D., refer to the "Model".

• With One-touch fitting

Model

Elbow type	Port size	Applicable tubing O.D.		
		Ø 6	Ø 8	Ø 10
AS22□1-01-F□S-X737	G 1/8	●	●	
AS22□1-02-F□S-X737	G 1/4	●	●	●
AS32□1-03-F□S-X737	G 3/8		●	●

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	Nylon, Soft nylon, Polyurethane FR double layer, FR Three-layer, FR soft nylon

*1: Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the catalogue at www.smc.eu for details.)

Applicable tubing O.D. [mm]	Model	
	Meter-out	Meter-in
Ø 6	AS2201-01-F06S-X737	AS2211-01-F06S-X737
	AS2201-02-F06S-X737	AS2211-02-F06S-X737
Ø 8	AS2201-01-F08S-X737	AS2211-01-F08S-X737
	AS2201-02-F08S-X737	AS2211-02-F08S-X737
	AS3201-03-F08S-X737	AS3211-03-F08S-X737
Ø 10	AS2201-02-F10S-X737	AS2211-02-F10S-X737
	AS3201-03-F10S-X737	AS3211-03-F10S-X737

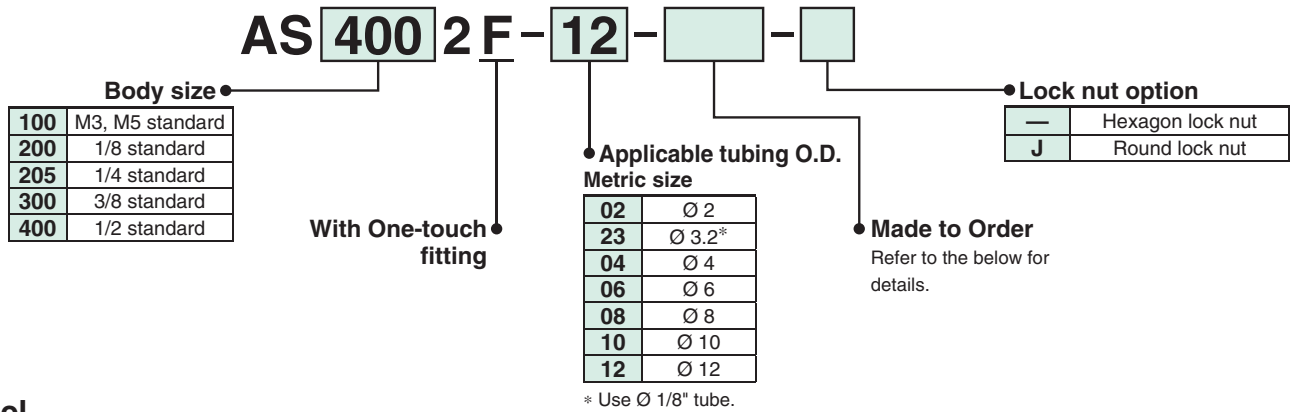
Speed Controller with One-touch Fittings RoHS

AS□2F Series

In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order



Model

Models marked with "●" are electroless nickel plated as standard. (N specifications)

Model	Applicable tubing O.D.						
	Metric size						
	2	3.2	4	6	8	10	12
AS1002F	●	●	●	●			
AS2002F			●	●			
AS2052F				●	●		
AS3002F				●	●	●	●
AS4002F						●	●

Specifications

Fluid	Air
Proof pressure	1.5 MPa (1.05 MPa)
Max. operating pressure	1 MPa (0.7 MPa)
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material ^(Note 1)	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

In-line Type

AS□2F

In-line type



Symbol



Applicable tubing O.D. [mm]	In-line type
	Model
Ø 2	AS1002F-02
	AS1002F-23
Ø 4	AS1002F-04
	AS2002F-04
Ø 6	AS1002F-06
	AS2002F-06
	AS2052F-06
	AS3002F-06

Applicable tubing O.D. [mm]	In-line type
	Model
Ø 8	AS2052F-08
	AS3002F-08
Ø 10	AS3002F-10
	AS4002F-10
Ø 12	AS3002F-12
	AS4002F-12

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) AS2002F-04-X12

3 Restrictor (Without check valve)

X214

Example) AS2002F-04-X214

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS2002F-04-X21

Note) Not particle-free

Speed Controller with One-touch Fittings RoHS

AS□1F-3 Series

In-line Type/Panel Mount Type

■ Applicable tubing O.D. : Metric Size

How to Order

AS 200 1 F - 06 - 3 - [] - []

Body size

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

With One-touch fitting

Applicable tubing O.D. Metric size

23	∅ 3.2*
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

* Use ∅ 1/8" tube.

Panel mount type

Panel mount thickness: 3.5 mm at the maximum

Lock nut option

—	Hexagon lock nut
J	Round lock nut

Made to Order
Refer to the below for details.

Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1001F	●	●	●			
AS2001F		●	●			
AS2051F			●	●		
AS3001F			●	●	●	●
AS4001F					●	●

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 <small>Note 1)</small>	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

In-line Type/Panel Mount Type

AS□1F-3



Symbol



Applicable tubing O.D. [mm]	In-line type/Panel mount type
	Model
∅ 3.2	AS1001F-23-3
	AS1001F-04-3
∅ 4	AS2001F-04-3
	AS1001F-06-3
∅ 6	AS2001F-06-3
	AS2051F-06-3
	AS3001F-06-3
	AS3001F-06-3

Applicable tubing O.D. [mm]	In-line type/Panel mount type
	Model
∅ 8	AS2051F-08-3
	AS3001F-08-3
∅ 10	AS3001F-10-3
	AS4001F-10-3
∅ 12	AS3001F-12-3
	AS4001F-12-3

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) AS2001F-04-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS2001F-04-X21

Note) Not particle-free

3 Restrictor (Without check valve)

X214

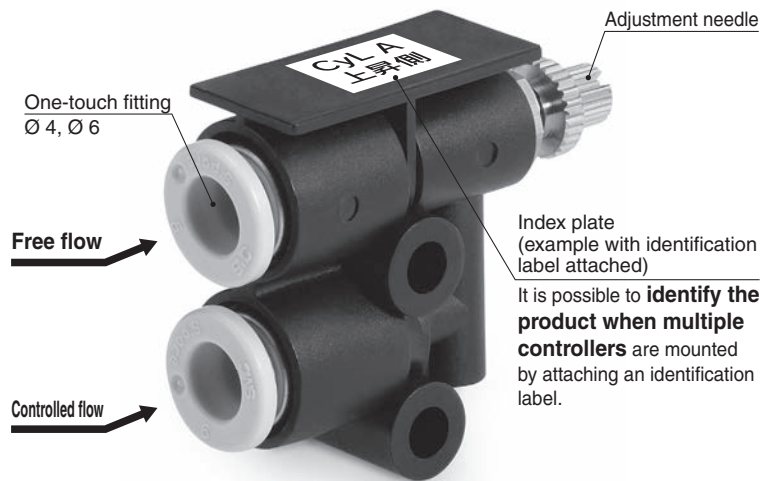
Example) AS2001F-04-X214

Speed Controller with One-touch Fittings

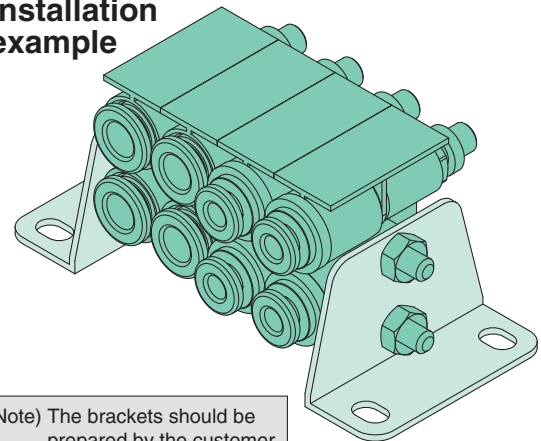
AS-DPP00092/00093 Series

Centralised Piping Type

■ Applicable tubing O.D. : Metric Size



Installation example



Model

Model	Applicable tubing O.D.	
	Metric size	
	4	6
AS-DPP00092	●	—
AS-DPP00093	—	●

Specifications

Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa (0.7 MPa ^{Note 1)})
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material ^{Note 1)}	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.

(Refer to the **WEB catalogue** at www.smc.eu for details)

Note 2) Brass parts are all electroless nickel plated.

Dual Speed Controller with One-touch Fitting

RoHS

Speed
Controllers

ASD□30F series

Universal Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

Lurch Prevention

How to Order

ASD **3** **30F** - **01** - **06** S - [] - []

Body size

2	M5 standard
3	1/8 standard
4	1/4 standard
5	3/8 standard
6	1/2 standard

Universal
With One-touch fitting

Port size

M5	M5 x 0.8
01	R 1/8
02	R 1/4
03	R 3/8
04	R 1/2

Applicable tubing O.D.

Metric size	
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

Lock nut option

—	Hexagon lock nut
J	Round lock nut

Made to Order

X12	Lubricant: Vaseline
-----	---------------------

Example) ASD330F-01-06S-X12

With seal ^{Note)}
Note) M5 size: S (with seal) is not necessary.

Model

Model	Port size	Applicable tubing O.D.				
		Metric size				
		4	6	8	10	12
ASD230F-M5	M5 x 0.8	●	●			
ASD330F-01	R 1/8		●	●		
ASD430F-02	R 1/4		●	●	●	
ASD530F-02	R 1/4		●	●	●	●
ASD530F-03	R 3/8		●	●	●	●
ASD630F-04	R 1/2				●	●

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 ^{Note 2)}	Nylon, Soft nylon, Polyurethane
Option	Round lock nut

Note 1) In case of ASD230F

Note 2) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

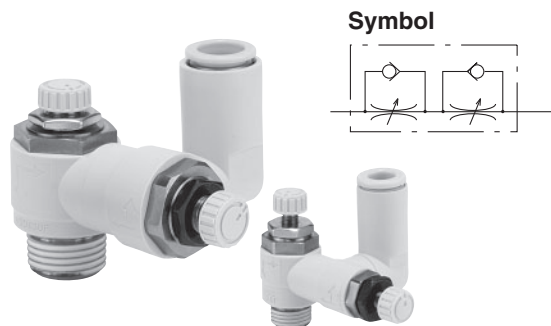
Note 3) Brass parts are all electroless nickel plated.

The lock nut on the meter-out type is zinc chromated (the round lock nut is electroless nickel plated), while the meter-in type is black zinc chromate plated.

Universal Type

ASD□30F

Meter-in/Meter-out control type
Prevention of a stick-slip phenomenon, and speed control of a single acting cylinder.



Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
∅ 4	M5 x 0.8	ASD230F-M5-04
	M5 x 0.8	ASD230F-M5-06
∅ 6	R 1/8	ASD330F-01-06S
	R 1/4	ASD430F-02-06S
		ASD530F-02-06S
	R 3/8	ASD530F-03-06S
	R 1/8	ASD330F-01-08S
∅ 8	R 1/4	ASD430F-02-08S
		ASD530F-02-08S
	R 3/8	ASD530F-03-08S

Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
∅ 10	R 1/4	ASD430F-02-10S
		ASD530F-02-10S
	R 3/8	ASD530F-03-10S
	R 1/2	ASD630F-04-10S
∅ 12	R 1/4	ASD530F-02-12S
	R 3/8	ASD530F-03-12S
	R 1/2	ASD630F-04-12S

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

2 Clean Series

10-

Example) ASD230F-M5-04-X12

Lubricant: Fluorine-based grease, Double package
Example) 10-ASD230F-M5-04

AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R

AS-Q

Related

Speed Controller with Uni One-touch Fitting

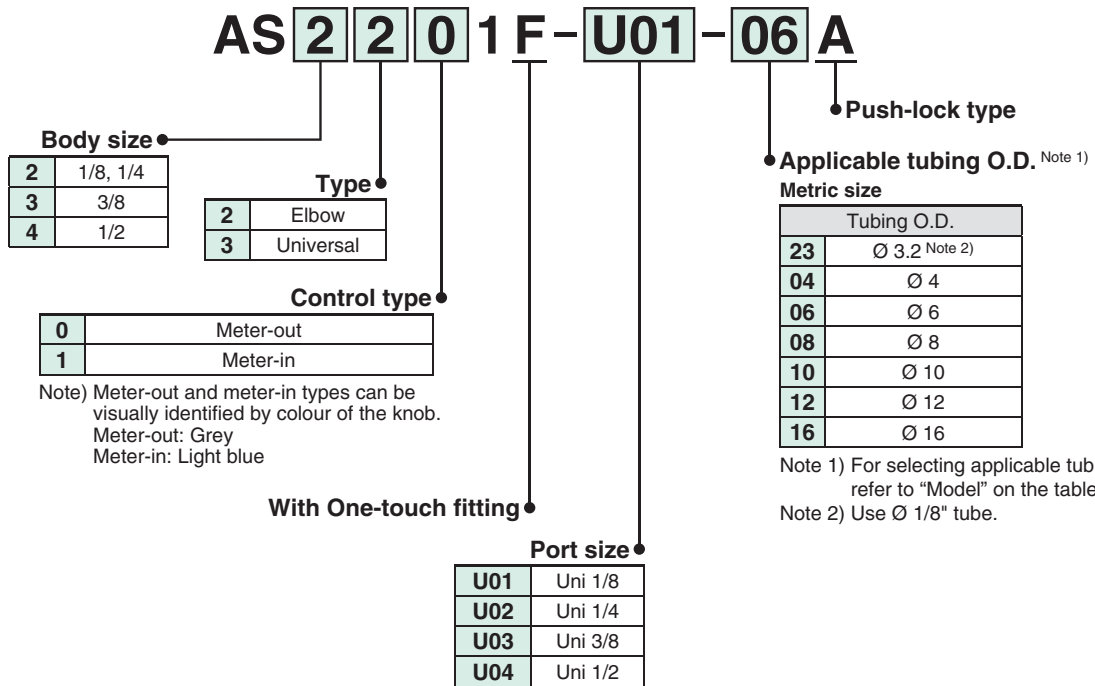
AS□□□1F-U□-A Series

Push-lock type

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : Uni

How to Order



Model

Connection thread Uni thread	Applicable tubing O.D.						Elbow type		Universal type	
	Metric size						Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10	12				
1/8	●	●	●	●	● <small>Note)</small>		AS2201F-U01	AS2211F-U01	AS2301F-U01	AS2311F-U01
1/4	● <small>Note)</small>	●	●	●	●		AS2201F-U02	AS2211F-U02	AS2301F-U02	AS2311F-U02
1/4			●	●	●	●	AS3201F-U02	AS3211F-U02	AS3301F-U02	AS3311F-U02
3/8			●	●	●	●	AS3201F-U03	AS3211F-U03	AS3301F-U03	AS3311F-U03
1/2					●	● <small>Note)</small>	AS4201F-U04	AS4211F-U04	AS4301F-U04	AS4311F-U04

Note) Universal type is not available.

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	Nylon, Soft nylon, Polyurethane <small>Note)</small>

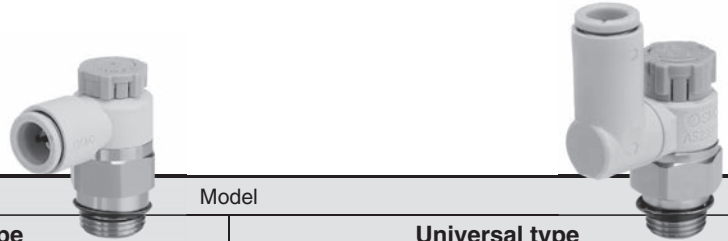
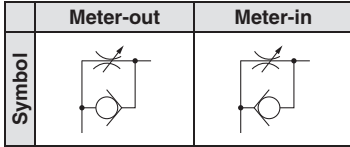
Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(Refer to the WEB catalogue at www.smc.eu for details.)

Refer to the WEB catalogue at www.smc.eu for inch size.

Elbow Type/Universal Type

AS□□□1F-U□-A

Symbol
Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	1/8	AS2201F-U01-23	AS2211F-U01-23	AS2301F-U01-23	AS2311F-U01-23
Ø 4	1/8	AS2201F-U01-04	AS2211F-U01-04	AS2301F-U01-04	AS2311F-U01-04
	1/4	AS2201F-U02-04	AS2211F-U02-04	AS2301F-U02-04	AS2311F-U02-04
Ø 6	1/8	AS2201F-U01-06	AS2211F-U01-06	AS2301F-U01-06	AS2311F-U01-06
	1/4	AS2201F-U02-06	AS2211F-U02-06	AS2301F-U02-06	AS2311F-U02-06
		AS3201F-U02-06	AS3211F-U02-06	AS3301F-U02-06	AS3311F-U02-06
	3/8	AS3201F-U03-06	AS3211F-U03-06	AS3301F-U03-06	AS3311F-U03-06
Ø 8	1/8	AS2201F-U01-08	AS2211F-U01-08	AS2301F-U01-08	AS2311F-U01-08
	1/4	AS2201F-U02-08	AS2211F-U02-08	AS2301F-U02-08	AS2311F-U02-08
		AS3201F-U02-08	AS3211F-U02-08	AS3301F-U02-08	AS3311F-U02-08
	3/8	AS3201F-U03-08	AS3211F-U03-08	AS3301F-U03-08	AS3311F-U03-08
Ø 10	1/8	AS2201F-U01-10	AS2211F-U01-10	—	—
	1/4	AS2201F-U02-10	AS2211F-U02-10	AS2301F-U02-10	AS2311F-U02-10
		AS3201F-U02-10	AS3211F-U02-10	AS3301F-U02-10	AS3311F-U02-10
	3/8	AS3201F-U03-10	AS3211F-U03-10	AS3301F-U03-10	AS3311F-U03-10
	1/2	AS4201F-U04-10	AS4211F-U04-10	AS4301F-U04-10	AS4311F-U04-10
Ø 12	1/4	AS3201F-U02-12	AS3211F-U02-12	AS3301F-U02-12	AS3311F-U02-12
	3/8	AS3201F-U03-12	AS3211F-U03-12	AS3301F-U03-12	AS3311F-U03-12
	1/2	AS4201F-U04-12	AS4211F-U04-12	AS4301F-U04-12	AS4311F-U04-12
Ø 16	1/2	AS4201F-U04-16	AS4211F-U04-16	AS4301F-U04-16	AS4311F-U04-16

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

- AS
- AS-FS
- AS-1F
- AS·P
- AS·F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller with Indicator/Uni Thread Type

AS-FS Series

Push-lock type

Elbow Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : Uni

How to Order

AS 2 2 0 1 FS [] - U01 - 06

Body size

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

Type

2	Elbow
---	-------



With indicator

Control type Note)

0	Meter-out
1	Meter-in

Note) Meter-out and meter-in types can be visually identified by colour of the knob.
Meter-out: Grey
Meter-in: Light blue

Indicator direction

—	0°	
1	180°	

Note) Orientation of indicator direction is fixed when manufacturing, and cannot be changed by the user.

Applicable tubing O.D. Note 1)

Metric size	
Tubing O.D.	
23	Ø 3.2 <small>Note 2)</small>
04	Ø 4
06	Ø 6
08	Ø 8
10	Ø 10
12	Ø 12
16	Ø 16

Note 1) For selecting applicable tubing O.D., refer to "Model" on the table below.
Note 2) Use Ø 1/8" tube.

Port size

U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8
U04	Uni 1/2



Model

Port size	Applicable tubing O.D.							Elbow type	
	Metric size							Meter-out	Meter-in
	3.2	4	6	8	10	12	16		
R 1/8	●	●	●	●	●			AS2201FS-U01	AS2211FS-U01
R 1/4	●	●	●	●	●			AS2201FS-U02	AS2211FS-U02
R 1/4			●	●	●	●		AS3201FS-U02	AS3211FS-U02
R 3/8			●	●	●	●		AS3201FS-U03	AS3211FS-U03
R 1/2					●	●	●	AS4201FS-U04	AS4211FS-U04

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	Nylon, Soft nylon, Polyurethane <small>Note)</small>

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the WEB catalogue at www.smc.eu for details.)

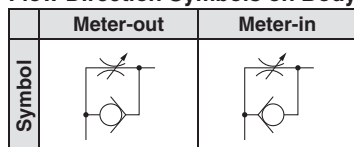
Refer to the WEB catalogue at www.smc.eu for inch size.

Elbow Type

AS-FS

Symbol

Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Uni thread	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 3.2	R 1/8	AS2201FS-U01-23	AS2211FS-U01-23
	R 1/4	AS2201FS-U02-23	AS2211FS-U02-23
Ø 4	R 1/8	AS2201FS-U01-04	AS2211FS-U01-04
	R 1/4	AS2201FS-U02-04	AS2211FS-U02-04
Ø 6	R 1/8	AS2201FS-U01-06	AS2211FS-U01-06
	R 1/4	AS2201FS-U02-06	AS2211FS-U02-06
		AS3201FS-U02-06	AS3211FS-U02-06
Ø 8	R 3/8	AS3201FS-U03-06	AS3211FS-U03-06
	R 1/8	AS2201FS-U01-08	AS2211FS-U01-08
		AS2201FS-U02-08	AS2211FS-U02-08
Ø 10	R 1/4	AS3201FS-U02-08	AS3211FS-U02-08
	R 3/8	AS3201FS-U03-08	AS3211FS-U03-08
		AS2201FS-U01-10	AS2211FS-U01-10
Ø 12	R 1/4	AS2201FS-U02-10	AS2211FS-U02-10
	R 1/4	AS3201FS-U02-10	AS3211FS-U02-10
		AS3201FS-U03-10	AS3211FS-U03-10
	R 1/2	AS4201FS-U04-10	AS4211FS-U04-10
Ø 16	R 1/4	AS3201FS-U02-12	AS3211FS-U02-12
	R 3/8	AS3201FS-U03-12	AS3211FS-U03-12
	R 1/2	AS4201FS-U04-12	AS4211FS-U04-12
Ø 16	R 1/2	AS4201FS-U04-16	AS4211FS-U04-16

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller with Uni One-touch Fitting

AS□□□1F-U Series

Elbow Type/Universal Type

■Applicable tubing O.D. : Metric Size ■Connection thread : Uni

How to Order

AS 2 2 1 1 F - U02 - 06 □ - □ - □

Body size

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

Type

2	Elbow
3	Universal

Control type

0	Meter-out
1	Meter-in

With One-touch fitting

Port size

U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8
U04	Uni 1/2

Lock nut option

—	Hexagon lock nut
J	Round lock nut

Made to Order

X260	Antistatic type
------	-----------------

Refer to next page for details.

Option

—	None
N	Nickel plated

Applicable tubing O.D.

Metric size

23	∅ 3.2*
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

* Use ∅ 1/8" tube.



Model

Models marked with "●" are nickel plated as standard.

Connection thread Uni thread	Applicable tubing O.D.						Elbow type		Universal type	
	Metric size						Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10	12				
1/8	●	●	●	●	Note 1)		AS2201F-U01	AS2211F-U01	AS2301F-U01	AS2311F-U01
1/4		●	●	●	●		AS2201F-U02	AS2211F-U02	AS2301F-U02	AS2311F-U02
1/4			●	●	●	●	AS3201F-U02	AS3211F-U02	AS3301F-U02	AS3311F-U02
3/8			●	●	●	●	AS3201F-U03	AS3211F-U03	AS3301F-U03	AS3311F-U03
1/2					●	●	AS4201F-U04	AS4211F-U04	AS4301F-U04	AS4311F-U04

Note 1) Elbow type only

Note 2) Meter-out and meter-in types can be visually differentiated by the lock nut. The lock nut on the meter-out type is zinc chromated (the round lock nut is electroless nickel plated), while the meter-in type is black zinc chromate plated.

Specifications

Fluid	Air
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material ^{Note 1)}	Nylon, Soft nylon, Polyurethane
Mounting thread	Uni thread
Thread seal	Gasket
Option	Round lock nut, Electroless nickel plated ^{Note 2)}

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

For inch size, refer to the **WEB catalogue** at www.smc.eu

Elbow Type/Universal Type

AS□□□1F-U

Symbol

Flow Direction Symbols on Body

	Meter-out	Meter-in
Symbol		



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	1/8	AS2201F-U01-23	AS2211F-U01-23	AS2301F-U01-23	AS2311F-U01-23
	1/4	AS2201F-U02-04	AS2211F-U02-04	AS2301F-U02-04	AS2311F-U02-04
Ø 4	1/8	AS2201F-U01-06	AS2211F-U01-06	AS2301F-U01-06	AS2311F-U01-06
	1/4	AS2201F-U02-06	AS2211F-U02-06	AS2301F-U02-06	AS2311F-U02-06
	3/8	AS3201F-U03-06	AS3211F-U03-06	AS3301F-U03-06	AS3311F-U03-06
Ø 6	1/8	AS2201F-U01-08	AS2211F-U01-08	AS2301F-U01-08	AS2311F-U01-08
	1/4	AS2201F-U02-08	AS2211F-U02-08	AS2301F-U02-08	AS2311F-U02-08
	3/8	AS3201F-U03-08	AS3211F-U03-08	AS3301F-U03-08	AS3311F-U03-08
Ø 8	1/8	AS2201F-U01-10	AS2211F-U01-10	—	—
	1/4	AS2201F-U02-10	AS2211F-U02-10	AS2301F-U02-10	AS2311F-U02-10
	3/8	AS3201F-U03-10	AS3211F-U03-10	AS3301F-U03-10	AS3311F-U03-10
	1/2	AS4201F-U04-10	AS4211F-U04-10	AS4301F-U04-10	AS4311F-U04-10
Ø 10	1/4	AS3201F-U02-12	AS3211F-U02-12	AS3301F-U02-12	AS3311F-U02-12
	3/8	AS3201F-U03-12	AS3211F-U03-12	AS3301F-U03-12	AS3311F-U03-12
	1/2	AS4201F-U04-12	AS4211F-U04-12	AS4301F-U04-12	AS4311F-U04-12

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Antistatic type

X260

Model

Model	Applicable tubing O.D.			
	Metric size			
	4	6	8	10
AS22□1F-U01	●	●	●	●
AS22□1F-U02	●	●	●	●
AS32□1F-U03		●	●	

Note) Electroless nickel plated



How to Order

AS 2 2 1 1 F - U02 - 06 - X260

Body size

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

Elbow

Control type

0	Meter-out
1	Meter-in

With One-touch fitting

Applicable tubing O.D. Metric size

04	Ø 4
06	Ø 6
08	Ø 8
10	Ø 10

Port size

U01	Uni 1/8
U02	Uni 1/4
U03	Uni 3/8

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller with Residual Pressure Release Valve

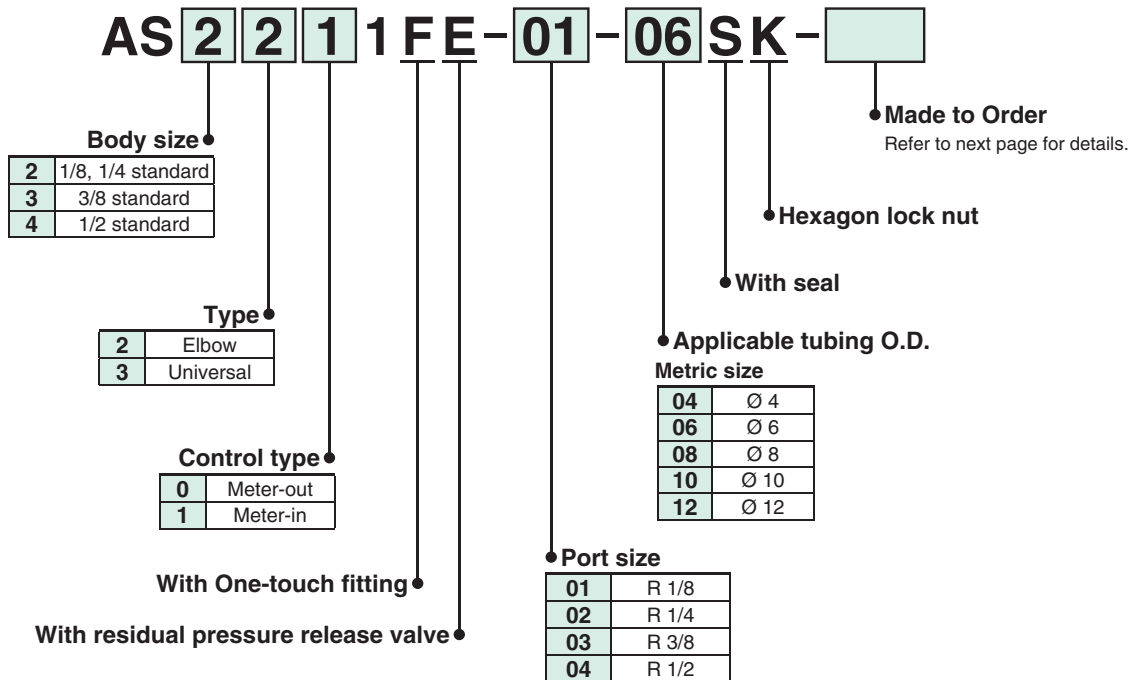
AS□□□IFE Series

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : R

Residual Pressure Exhaust

How to Order



Residual pressure exhaust of the cylinder
Residual pressure can be easily released with one push of button.

Elbow type



Universal type



Model

Port size	Applicable tubing O.D.				Elbow type		Universal type		
	Metric size				Meter-out	Meter-in	Meter-out	Meter-in	
	4	6	8	10					12
R 1/8	●	●	●	Note 1)	AS2201FE-01	AS2211FE-01	AS2301FE-01	AS2311FE-01	
R 1/4	●	●	●	●	AS2201FE-02	AS2211FE-02	AS2301FE-02	AS2311FE-02	
R 3/8	●	●	●	●	AS3201FE-03	AS3211FE-03	AS3301FE-03	AS3311FE-03	
R 1/2				●	●	AS4201FE-04	AS4211FE-04	AS4301FE-04	AS4311FE-04

Note 1) Elbow type only

Note 2) Meter-out and meter-in types can be visually differentiated by the lock nut.

The lock nut on the meter-out type is electroless nickel plated, while the meter-in type is black zinc chromate plated.

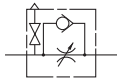
Specifications

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)
Effective area of residual pressure release valve	0.8 mm ²
Applicable tubing material	Nylon, Soft nylon, Polyurethane

Elbow Type/Universal Type

AS□□□1FE

Symbol



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 4	R 1/8	AS2201FE-01-04SK	AS2211FE-01-04SK	AS2301FE-01-04SK	AS2311FE-01-04SK
	R 1/4	AS2201FE-02-04SK	AS2211FE-02-04SK	AS2301FE-02-04SK	AS2311FE-02-04SK
Ø 6	R 1/8	AS2201FE-01-06SK	AS2211FE-01-06SK	AS2301FE-01-06SK	AS2311FE-01-06SK
	R 1/4	AS2201FE-02-06SK	AS2211FE-02-06SK	AS2301FE-02-06SK	AS2311FE-02-06SK
	R 3/8	AS3201FE-03-06SK	AS3211FE-03-06SK	AS3301FE-03-06SK	AS3311FE-03-06SK
Ø 8	R 1/8	AS2201FE-01-08SK	AS2211FE-01-08SK	AS2301FE-01-08SK	AS2311FE-01-08SK
	R 1/4	AS2201FE-02-08SK	AS2211FE-02-08SK	AS2301FE-02-08SK	AS2311FE-02-08SK
	R 3/8	AS3201FE-03-08SK	AS3211FE-03-08SK	AS3301FE-03-08SK	AS3311FE-03-08SK
Ø 10	R 1/8	AS2201FE-01-10SK	AS2211FE-01-10SK	—	—
	R 1/4	AS2201FE-02-10SK	AS2211FE-02-10SK	AS2301FE-02-10SK	AS2311FE-02-10SK
	R 3/8	AS3201FE-03-10SK	AS3211FE-03-10SK	AS3301FE-03-10SK	AS3311FE-03-10SK
	R 1/2	AS4201FE-04-10SK	AS4211FE-04-10SK	AS4301FE-04-10SK	AS4311FE-04-10SK
Ø 12	R 3/8	AS3201FE-03-12SK	AS3211FE-03-12SK	AS3301FE-03-12SK	AS3311FE-03-12SK
	R 1/2	AS4201FE-04-12SK	AS4211FE-04-12SK	AS4301FE-04-12SK	AS4311FE-04-12SK

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline

X12

Example) AS2201FE-01-04SK-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS2201FE-01-04SK-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) **X214**

Example) AS2201FE-01-04SK-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

- AS
- AS-FS
- AS-1F
- AS·P
- AS·F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS·FE
- AS·FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS·FM
- ASD-FM
- AS·F-D
- ASD-F-D
- AS·F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Stainless Steel: Speed Controller with One-touch Fitting RoHS

AS-FG Series

Push-lock type

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M, R

Corrosion Resistant

How to Order

Body size

1	M5 x 0.8
---	----------

Port size

M5	M5 x 0.8
----	----------

Applicable tubing O.D. ^{Note 1)}

Metric size	
02	∅ 2
23	∅ 3.2 ^{Note 2)}
04	∅ 4
06	∅ 6

Note 1) For selecting applicable tubing O.D., refer to "Model" on the table below.
Note 2) Use ∅ 1/8" tube.

Body size 1 AS 1 2 0 1 FG - M5 - 06 A -

Body size 2/3/4 AS 2 2 0 1 FG - 01 - 06 S A -

Body size

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

Type

2	Elbow
3	Universal

Control type ^{Note)}

0	Meter-out
1	Meter-in

Note) Meter-out and meter-in types can be visually identified by colour of the knob.
Meter-out: Grey
Meter-in: Light blue

Stainless steel specifications (SUS303)

Note) The material can be visually identified by colour of the release button.
Stainless steel type: White

Port size

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

Made to Order
Refer to next page for details.

Push-lock type

Seal method

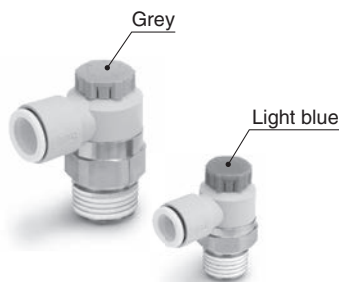
—	Without sealant
S	With sealant

Applicable tubing O.D. ^{Note 1)}

Metric size			
23	∅ 3.2 ^{Note 2)}	10	∅ 10
04	∅ 4	12	∅ 12
06	∅ 6	16	∅ 16
08	∅ 8		

Note 1) For selecting applicable tubing O.D., refer to "Model" on the table below.
Note 2) Use ∅ 1/8" tube.

Elbow type



Universal type



Model

Port size	Applicable tubing O.D.							Elbow type		Universal type	
	Metric size							Meter-out	Meter-in	Meter-out	Meter-in
	2 ^{Note 2)}	3.2	4	6	8	10	12				
M5 x 0.8	● ^{Note 1)}	●	●	●	●	●	●	AS1201FG-M5	AS1211FG-M5	AS1301FG-M5	AS1311FG-M5
R 1/8		●	●	●	●	●	●	AS2201FG-01	AS2211FG-01	AS2301FG-01	AS2311FG-01
R 1/4		● ^{Note 1)}	●	●	●	●	●	AS2201FG-02	AS2211FG-02	AS2301FG-02	AS2311FG-02
R 1/4			●	●	●	●	●	AS3201FG-02	AS3211FG-02	AS3301FG-02	AS3311FG-02
R 3/8			●	●	●	●	●	AS3201FG-03	AS3211FG-03	AS3301FG-03	AS3311FG-03
R 1/2					●	●	● ^{Note 1)}	AS4201FG-04	AS4211FG-04	AS4301FG-04	AS4311FG-04

Note 1) Universal type is not available.

Note 2) Only polyurethane tubing is applicable for ∅ 2.

Specifications

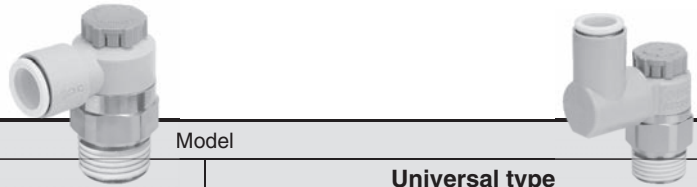
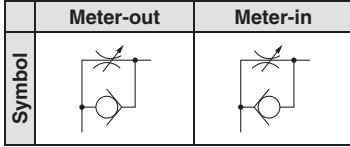
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane ^{Note)} , FEP, PFA

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(For details, refer to the **WEB catalogue** at www.smc.eu)

Elbow Type/Universal Type

AS-FG

Symbol
Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Connection thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 2	M5 x 0.8	AS1201FG-M5-02	AS1211FG-M5-02	—	—
Ø 3.2	M5 x 0.8	AS1201FG-M5-23	AS1211FG-M5-23	AS1301FG-M5-23	AS1311FG-M5-23
	R 1/8	AS2201FG-01-23	AS2211FG-01-23	AS2301FG-01-23	AS2311FG-01-23
Ø 4	M5 x 0.8	AS1201FG-M5-04	AS1211FG-M5-04	AS1301FG-M5-04	AS1311FG-M5-04
	R 1/8	AS2201FG-01-04S	AS2211FG-01-04S	AS2301FG-01-04S	AS2311FG-01-04S
	R 1/4	AS2201FG-02-04S	AS2211FG-02-04S	AS2301FG-02-04S	AS2311FG-02-04S
Ø 6	M5 x 0.8	AS1201FG-M5-06	AS1211FG-M5-06	AS1301FG-M5-06	AS1311FG-M5-06
	R 1/8	AS2201FG-01-06S	AS2211FG-01-06S	AS2301FG-01-06S	AS2311FG-01-06S
	R 1/4	AS2201FG-02-06S	AS2211FG-02-06S	AS2301FG-02-06S	AS2311FG-02-06S
		AS3201FG-02-06S	AS3211FG-02-06S	AS3301FG-02-06S	AS3311FG-02-06S
R 3/8	AS3201FG-03-06S	AS3211FG-03-06S	AS3301FG-03-06S	AS3311FG-03-06S	
Ø 8	R 1/8	AS2201FG-01-08S	AS2211FG-01-08S	AS2301FG-01-08S	AS2311FG-01-08S
	R 1/4	AS2201FG-02-08S	AS2211FG-02-08S	AS2301FG-02-08S	AS2311FG-02-08S
		AS3201FG-02-08S	AS3211FG-02-08S	AS3301FG-02-08S	AS3311FG-02-08S
R 3/8	AS3201FG-03-08S	AS3211FG-03-08S	AS3301FG-03-08S	AS3311FG-03-08S	
Ø 10	R 1/8	AS2201FG-01-10S	AS2211FG-01-10S	—	—
	R 1/4	AS2201FG-02-10S	AS2211FG-02-10S	AS2301FG-02-10S	AS2311FG-02-10S
		AS3201FG-02-10S	AS3211FG-02-10S	AS3301FG-02-10S	AS3311FG-02-10S
	R 3/8	AS3201FG-03-10S	AS3211FG-03-10S	AS3301FG-03-10S	AS3311FG-03-10S
	R 1/2	AS4201FG-04-10S	AS4211FG-04-10S	AS4301FG-04-10S	AS4311FG-04-10S
Ø 12	R 1/4	AS3201FG-02-12S	AS3211FG-02-12S	AS3301FG-02-12S	AS3311FG-02-12S
	R 3/8	AS3201FG-03-12S	AS3211FG-03-12S	AS3301FG-03-12S	AS3311FG-03-12S
	R 1/2	AS4201FG-04-12S	AS4211FG-04-12S	AS4301FG-04-12S	AS4311FG-04-12S
Ø 16	R 1/2	AS4201FG-04-16S	AS4211FG-04-16S	AS4301FG-04-16S	AS4311FG-04-16S

Refer to the WEB catalogue at www.smc.eu for inch size.

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline **-X12**

Example) AS2201FG-01-04SA-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) **-X21**

Example) AS2201FG-01-04SA-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) **-X214**

Example) AS2201FG-01-04SA-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

4 Clean Series **10-**

Example) 10-AS2201FG-01-04SA

Note 1) Fluorine grease is used.

Note 2) The particulate generation class is 5.

Note 3) Excluding G thread type.

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Stainless Steel: Speed Controller with Indicator RoHS

AS-FSG Series

Push-lock type

Elbow / Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M5, R, G



Corrosion Resistant

How to Order

● Applicable tubing O.D. ^{Note 1)}

Metric size

02	Ø 2	04	Ø 4
23	Ø 3.2 ^{Note 2)}	06	Ø 6

Note 1) For selecting applicable tubing O.D., refer to "Model".
The material can be visually identified by colour of the release button. Stainless steel type: White
Note 2) Use Ø 1/8" tube.

Port size

M5	M5 x 0.8
----	----------

Body size

1	M5 x 0.8
---	----------

Body size 1

AS 1 2 0 1 F S G [] - M5 - 06 - []

Body size 2/3/4

AS 2 2 0 1 F S G [] - [] 01 - 06 S - []

Body size

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

Type

2	Elbow
3	Universal

With indicator
Stainless steel type

Control type ^{Note)}

0	Meter-out
1	Meter-in

Note) Meter-out and meter-in types can be visually identified by colour of the knob.
Meter-out: Grey
Meter-in: Light blue

Thread type

-	R
G	G

● Made to Order
Refer to next page for details.

Seal method

-	Without sealant
S	With sealant

● Applicable tubing O.D. ^{Note 1)}

Metric size

23	Ø 3.2 ^{Note 2)}	10	Ø 10
04	Ø 4	12	Ø 12
06	Ø 6	16	Ø 16
08	Ø 8		

Note 1) For selecting applicable tubing O.D., refer to "Model".
Note 2) Use Ø 1/8" tube.

● Port size

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

● Indicator window direction

			Elbow	Universal
-	0° Indicator window		●	-
1	180° Indicator window		●	●
2	90° Indicator window		●	-
3	270° Indicator window		●	-

Symbol

Flow Direction Symbols on Body

	Meter-out	Meter-in
Symbol		

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	Nylon, Soft nylon, Polyurethane ^{Note)} , FEP, PFA

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(For details, refer to the WEB catalogue at www.smc.eu)

Elbow Type

AS-FSG

Model

Model	Port size	Applicable tubing O.D.						
		Metric size						
		2 <small>Note 1)</small>	3.2	4	6	8	10	12
AS1□□1FSG□-M5	M5 x 0.8	● <small>Note 2)</small>	●	●	●			
AS1□□1FSG□-U10/32	10-32UNF	● <small>Note 2)</small>	●	●	●			
AS2□□1FSG□-□01	R G	1/8	●	●	●	●	● <small>Note 2)</small>	
AS2□□1FSG□-□02		1/4	● <small>Note 2)</small>	●	●	●	●	
AS3□□1FSG□-□02		1/4			●	●	●	●
AS3□□1FSG□-□03		3/8			●	●	●	●
AS4□□1FSG□-□04		1/2					●	● <small>Note 2)</small>

Note 1) Only polyurethane tubing is applicable for Ø 2.

Note 2) Universal type is not available.



Applicable tubing O.D. [mm]	Connection thread	Model		Model	
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 2	M5 x 0.8	AS1201FSG-M5-02	AS1211FSG-M5-02	-	-
Ø 3.2	M5 x 0.8	AS1201FSG-M5-23	AS1211FSG-M5-23	AS1301FSG-M5-23	AS1311FSG-M5-23
	R 1/8	AS2201FSG-01-23S	AS2211FSG-01-23S	AS2301FSG-01-23S	AS2311FSG-01-23S
Ø 4	M5 x 0.8	AS1201FSG-M5-04	AS1211FSG-M5-04	AS1301FSG-M5-04	AS1311FSG-M5-04
	R 1/8	AS2201FSG-01-04S	AS2211FSG-01-04S	AS2301FSG-01-04S	AS2311FSG-01-04
	R 1/4	AS2201FSG-02-04S	AS2211FSG-02-04S	AS2301FSG-02-04S	AS2311FSG-02-04
Ø 6	M5 x 0.8	AS1201FSG-M5-06	AS1211FSG-M5-06	AS1301FSG-M5-06	AS1311FSG-M5-06
	R 1/8	AS2201FSG-01-06S	AS2211FSG-01-06S	AS2301FSG-01-06S	AS2311FSG-01-06
	R 1/4	AS2201FSG-02-06S	AS2211FSG-02-06S	AS2301FSG-02-06S	AS2311FSG-02-06
		AS3201FSG-02-06S	AS3211FSG-02-06S	AS3301FSG-02-06S	AS3311FSG-02-06
	R 3/8	AS3201FSG-03-06S	AS3211FSG-03-06S	AS3301FSG-03-06S	AS3311FSG-03-06
Ø 8	R 1/8	AS2201FSG-01-08S	AS2211FSG-01-08S	AS2301FSG-01-08S	AS2311FSG-01-08
	R 1/4	AS2201FSG-02-08S	AS2211FSG-02-08S	AS2301FSG-02-08S	AS2311FSG-02-08
		AS3201FSG-02-08S	AS3211FSG-02-08S	AS3301FSG-02-08S	AS3311FSG-02-08
	R 3/8	AS3201FSG-03-08S	AS3211FSG-03-08S	AS3301FSG-03-08S	AS3311FSG-03-08
	R 1/8	AS2201FSG-01-10S	AS2211FSG-01-10S	AS2301FSG-01-10S	AS2311FSG-01-10
Ø 10	R 1/4	AS2201FSG-02-10S	AS2211FSG-02-10S	-	-
		AS3201FSG-02-10S	AS3211FSG-02-10S	AS3301FSG-02-10S	AS3311FSG-02-10
	R 3/8	AS3201FSG-03-10S	AS3211FSG-03-10S	AS3301FSG-03-10S	AS3311FSG-03-10
	R 1/2	AS4201FSG-04-10S	AS4211FSG-04-10S	AS4301FSG-04-10S	AS4311FSG-04-10
Ø 12	R 1/4	AS3201FSG-02-12S	AS3211FSG-02-12S	AS3301FSG-02-12S	AS3311FSG-02-12
	R 3/8	AS3201FSG-03-12S	AS3211FSG-03-12S	AS3301FSG-03-12S	AS3311FSG-03-12
	R 1/2	AS4201FSG-04-12S	AS4211FSG-04-12S	AS4301FSG-04-12S	AS4311FSG-04-12
Ø 16	R 1/2	AS4201FSG-04-16S	AS4211FSG-04-16S	-	-

To order thread type "G", add a "G" and remove the final "S". Example: AS2201FSG-G02-04. Refer to the **WEB Catalogue** at www.smc.eu for inch size.

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline -X12

Example) AS2201FSG-01-04S-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) -X21

Example) AS2201FSG-01-04S-X21

Note 1) Not particle-free
 Note 2) The restrictor is only compatible with the part number of the meter-out type.
 Note 3) Only the needle and O-ring are fluorine-coated.

3 Restrictor (Without check valve) -X214

Example) AS2201FSG-01-04S-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

4 Clean Series 10-

Example) 10-AS2201FSG-01-04S

Note 1) Fluorine grease is used.
 Note 2) The particulate generation class is 5.

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Stainless Steel: Speed Controller with One-touch Fitting RoHS

AS□□□1FG Series

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M5, R

Corrosion Resistant

How to Order

AS 2 3 0 1 FG - 01 - 06 □ - □ - □

Body size

1	M5 standard
2	1/8, 1/4 standard
3	3/8 standard
4	1/2 standard

Type

2	Elbow
3	Universal

Control type

0	Meter-out
1	Meter-in

With One-touch fitting

Stainless steel specifications (SUS303)

Port size

M5	M5 x 0.8
01	R 1/8
02	R 1/4
03	R 3/8
04	R 1/2

Lock nut option

—	Hexagon lock nut
J	Round lock nut

Made to Order
Refer to next page for details.

Seal method

—	Without sealant
S	With seal*

* M5 is not available with seals.

Applicable tubing O.D. Metric size

23	∅ 3.2*
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

* Use ∅ 1/8" tube.

Stainless steel 303 used for metal parts.

Elbow type



Universal type



Model

Port size	Applicable tubing O.D.						Elbow type		Universal type	
	Metric size						Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10	12				
M5 x 0.8	●	●	●				AS1201FG-M5	AS1211FG-M5	AS1301FG-M5	AS1311FG-M5
R 1/8	●	●	●	●	Note 2)		AS2201FG-01	AS2211FG-01	AS2301FG-01	AS2311FG-01
R 1/4		●	●	●	●		AS2201FG-02	AS2211FG-02	AS2301FG-02	AS2311FG-02
R 1/4			●	●	●	●	AS3201FG-02	AS3211FG-02	AS3301FG-02	AS3311FG-02
R 3/8			●	●	●	●	AS3201FG-03	AS3211FG-03	AS3301FG-03	AS3311FG-03
R 1/2					●	●	AS4201FG-04	AS4211FG-04	AS4301FG-04	AS4311FG-04

Note 1) Meter-out and meter-in types can be visually differentiated by the flow direction symbol on the resin body.

Note 2) Elbow type only

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 ^{Note)}	Nylon, Soft nylon, Polyurethane

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

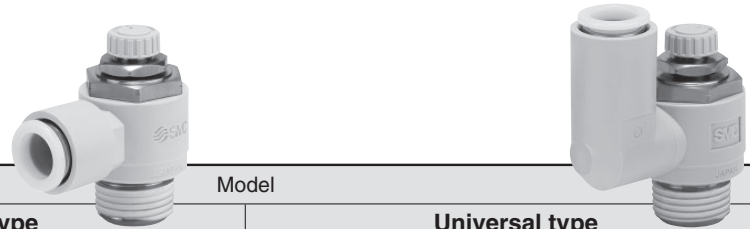
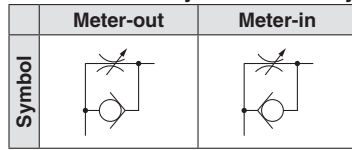
For inch size, refer to the **WEB catalogue** at www.smc.eu

Elbow Type/Universal Type

AS□□□1FG

Symbol

Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	M5 x 0.8	AS1201FG-M5-23	AS1211FG-M5-23	AS1301FG-M5-23	AS1311FG-M5-23
	R 1/8	AS2201FG-01-23S	AS2211FG-01-23S	AS2301FG-01-23S	AS2311FG-01-23S
Ø 4	M5 x 0.8	AS1201FG-M5-04	AS1211FG-M5-04	AS1301FG-M5-04	AS1311FG-M5-04
	R 1/8	AS2201FG-01-04S	AS2211FG-01-04S	AS2301FG-01-04S	AS2311FG-01-04S
	R 1/4	AS2201FG-02-04S	AS2211FG-02-04S	AS2301FG-02-04S	AS2311FG-02-04S
Ø 6	M5 x 0.8	AS1201FG-M5-06	AS1211FG-M5-06	AS1301FG-M5-06	AS1311FG-M5-06
	R 1/8	AS2201FG-01-06S	AS2211FG-01-06S	AS2301FG-01-06S	AS2311FG-01-06S
	R 1/4	AS2201FG-02-06S	AS2211FG-02-06S	AS2301FG-02-06S	AS2311FG-02-06S
		AS3201FG-02-06S	AS3211FG-02-06S	AS3301FG-02-06S	AS3311FG-02-06S
R 3/8	AS3201FG-03-06S	AS3211FG-03-06S	AS3301FG-03-06S	AS3311FG-03-06S	
Ø 8	R 1/8	AS2201FG-01-08S	AS2211FG-01-08S	AS2301FG-01-08S	AS2311FG-01-08S
	R 1/4	AS2201FG-02-08S	AS2211FG-02-08S	AS2301FG-02-08S	AS2311FG-02-08S
		AS3201FG-02-08S	AS3211FG-02-08S	AS3301FG-02-08S	AS3311FG-02-08S
	R 3/8	AS3201FG-03-08S	AS3211FG-03-08S	AS3301FG-03-08S	AS3311FG-03-08S
Ø 10	R 1/8	AS2201FG-01-10S	AS2211FG-01-10S	—	—
	R 1/4	AS2201FG-02-10S	AS2211FG-02-10S	AS2301FG-02-10S	AS2311FG-02-10S
		AS3201FG-02-10S	AS3211FG-02-10S	AS3301FG-02-10S	AS3311FG-02-10S
	R 3/8	AS3201FG-03-10S	AS3211FG-03-10S	AS3301FG-03-10S	AS3311FG-03-10S
	R 1/2	AS4201FG-04-10S	AS4211FG-04-10S	AS4301FG-04-10S	AS4311FG-04-10S
Ø 12	R 1/4	AS3201FG-02-12S	AS3211FG-02-12S	AS3301FG-02-12S	AS3311FG-02-12S
	R 3/8	AS3201FG-03-12S	AS3211FG-03-12S	AS3301FG-03-12S	AS3311FG-03-12S
	R 1/2	AS4201FG-04-12S	AS4211FG-04-12S	AS4301FG-04-12S	AS4311FG-04-12S

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline

X12

Example) AS1201FG-M5-23-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS1201FG-M5-23-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve)

X214

Example) AS1201FG-M5-23-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

4 Clean Series

10-

Lubricant: Fluorine-based grease, Double package

Example) 10-AS1201FG-M5-23

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Stainless steel: Speed Controller with one touch fittings RoHS

Push-lock type
AS-FG Series

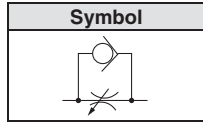
In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order



Flow Direction
Symbol on Body



AS 200 2 FG - 06 A

Body size

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 type
(Stainless steel 303)

Push-lock type

Applicable tubing O.D.

Metric size

23	∅ 3.2*1
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

*1: Use ∅ 1/8" tubing.

Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1002FG	●	●	●			
AS2002FG		●	●			
AS2052FG			●	●		
AS3002FG			●	●	●	●
AS4002FG					●	●

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	Nylon, Soft nylon, Polyurethane*1, FEP, PFA

*1: Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the catalogue at www.smc.eu for details.)

Applicable tubing O.D. [mm]	Model
∅ 3.2	AS1002FG-23A
∅ 4	AS1002FG-04A
	AS2002FG-04A
∅ 6	AS1002FG-06A
	AS2002FG-06A
	AS2052FG-06A
	AS3002FG-06A
∅ 8	AS2052FG-08A
	AS3002FG-08A
∅ 10	AS3002FG-10A
	AS4002FG-10A
∅ 12	AS3002FG-12A
	AS4002FG-12A

Stainless steel: Speed Controller with Indicator RoHS

AS-FSG Series

Push-lock type

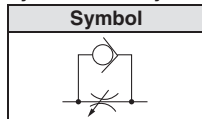
In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order



Flow Direction
Symbol on Body



AS 200 2 F S G 1 - 06

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

With One-touch fittings

With indicator

Stainless steel type
(Stainless steel 303)

Applicable tubing O.D.*1

Metric size	
23	∅ 3.2*1
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

*1: Use ∅ 1/8" tubing.

Indicator window direction

—	0°		2	90°	
1	180°		3	270°	

Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1002FSG	●	●	●			
AS2002FSG		●	●			
AS2052FSG			●	●		
AS3002FSG			●	●	●	●
AS4002FSG					●	●

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	Nylon, Soft nylon, Polyurethane*1, FEP, PFA

*1: Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the catalogue at www.smc.eu for details.)

Applicable tubing O.D. [mm]	Model
∅ 3.2	AS1002FSG-23
∅ 4	AS1002FSG-04
	AS2002FSG-04
∅ 6	AS1002FSG-06
	AS2002FSG-06
	AS2052FSG-06
	AS3002FSG-06
∅ 8	AS2052FSG-08
	AS3002FSG-08
∅ 10	AS3002FSG-10
	AS4002FSG-10
∅ 12	AS3002FSG-12
	AS4002FSG-12

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

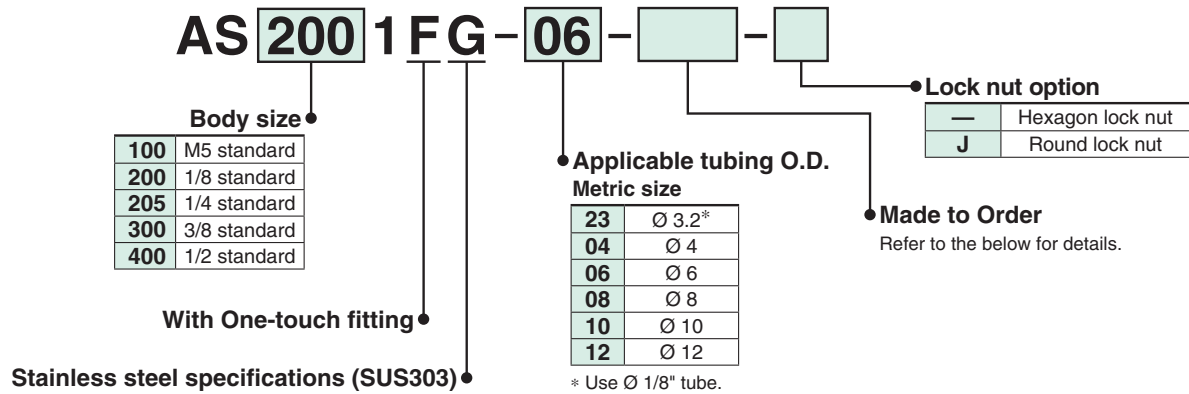
AS□1FG Series

In-line Type

■ Applicable tubing O.D. : Metric Size

Corrosion Resistant

How to Order



Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1001FG	●	●	●			
AS2001FG		●	●			
AS2051FG			●	●		
AS3001FG			●	●	●	●
AS4001FG					●	●

Specifications

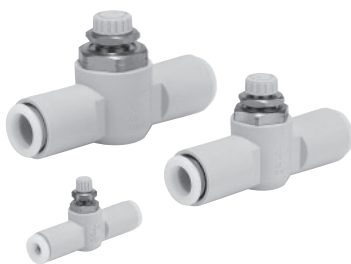
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Applicable tubing material ^(Note)	Nylon, Soft nylon, Polyurethane

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(For details, refer to the WEB catalogue at www.smc.eu)

In-line Type

AS□1FG

Stainless steel 303 used for metal parts.



Symbol



Applicable tubing O.D. mm	Model	Applicable tubing O.D. mm	Model
	In-line type		In-line type
∅ 3.2	AS1001FG-23	∅ 8	AS2051FG-08
	AS1001FG-04		AS3001FG-08
	AS2001FG-04		AS3001FG-10
∅ 4	AS1001FG-06	∅ 10	AS4001FG-10
	AS2001FG-06		AS3001FG-12
	AS2051FG-06		AS4001FG-12
∅ 6	AS3001FG-06	∅ 12	

For inch size, refer to the WEB catalogue at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) AS1001FG-04-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS1001FG-04-X21

Note) Not particle-free

3 Restrictor (Without check valve)

X214

Example) AS1001FG-04-X214

4 Clean Series

10-

Lubricant: Fluorine-based grease Double package

Example) 10-AS1001FG-04

ASD□30FG Series

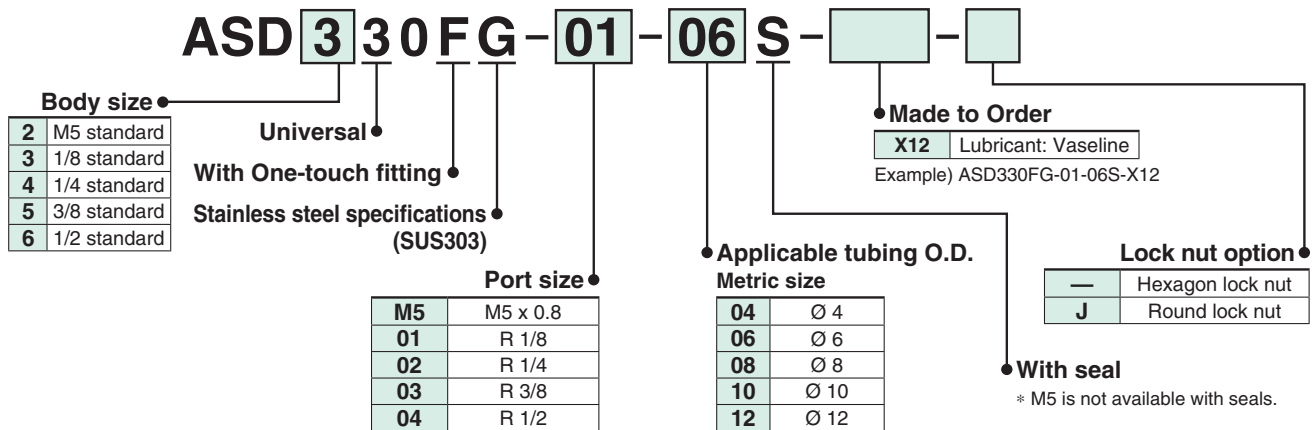
Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M5, R

How to Order

Corrosion
Resistant

Lurch Prevention



Model

Model	Port size	Applicable tubing O.D.				
		Metric size				
		4	6	8	10	12
ASD230FG-M5	M5 x 0.8	●	●			
ASD330FG-01	R 1/8		●	●		
ASD430FG-02	R 1/4		●	●	●	
ASD530FG-02	R 1/4		●	●	●	●
ASD530FG-03	R 3/8		●	●	●	●
ASD630FG-04	R 1/2				●	●

Specifications

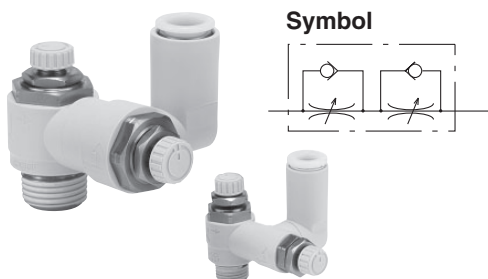
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material ^{Note)}	Nylon, Soft nylon, Polyurethane

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(For details, refer to the WEB catalogue at www.smc.eu)

Universal Type

ASD□30FG

Stainless steel 303 used for metal parts.
Prevention of stick-slip phenomenon,
and speed control of a single acting
cylinder.



Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 4	M5 x 0.8	ASD230FG-M5-04
	M5 x 0.8	ASD230FG-M5-06
Ø 6	R 1/8	ASD330FG-01-06S
	R 1/4	ASD430FG-02-06S
		ASD530FG-02-06S
	R 3/8	ASD530FG-03-06S
Ø 8	R 1/8	ASD330FG-01-08S
	R 1/4	ASD430FG-02-08S
	R 3/8	ASD530FG-03-08S

Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 10	R 1/4	ASD430FG-02-10S
		ASD530FG-02-10S
	R 3/8	ASD530FG-03-10S
	R 1/2	ASD630FG-04-10S
Ø 12	R 1/4	ASD530FG-02-12S
	R 3/8	ASD530FG-03-12S
	R 1/2	ASD630FG-04-12S

For inch size, refer to the WEB catalogue at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

2 Clean Series

10-

Example) ASD230FG-M5-04-X12

Lubricant: Fluorine-based grease, Double package
Example) 10-ASD230FG-M5-04

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Stainless Steel 316 Series Speed Controller

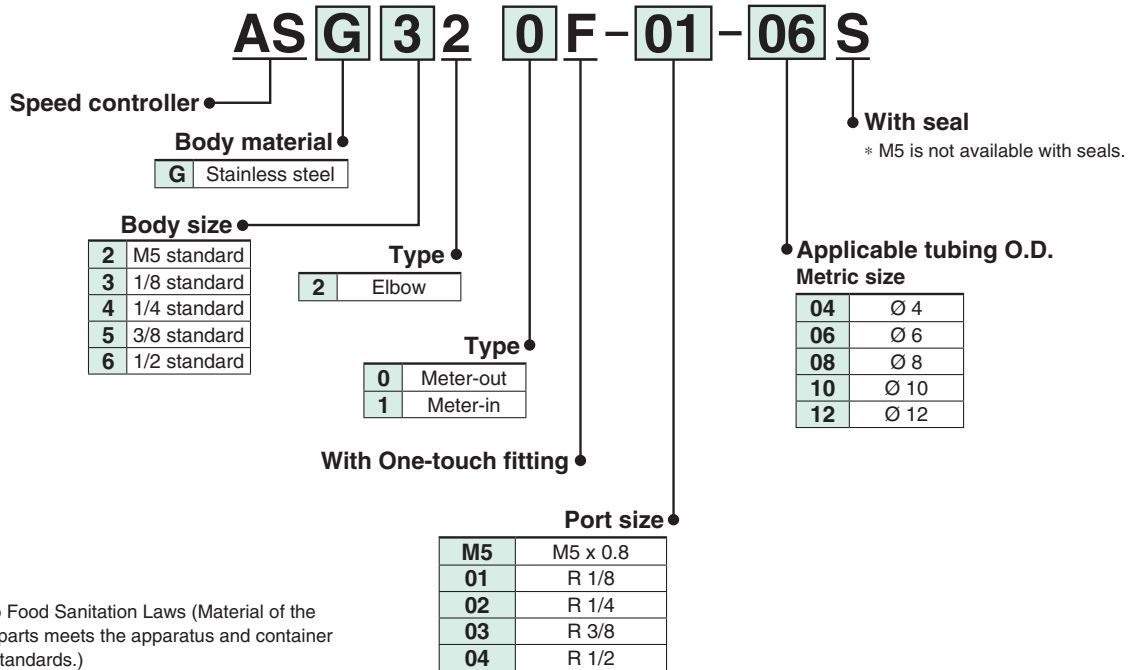
ASG Series

Elbow Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M5, R

Corrosion Resistant

How to Order



Conforms to Food Sanitation Laws (Material of the component parts meets the apparatus and container packaging standards.)

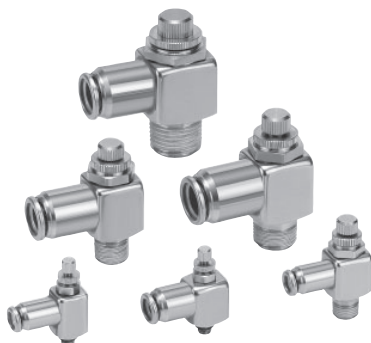
Material: Stainless steel 316

Sealant: Special FKM

Seat ring: Stainless steel 303

Applicable tubing materials

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin



Model

Model	Port size	Applicable tubing O.D.					Applicable cylinder bore size [mm]
		Metric size					
		4	6	8	10	12	
ASG22□F-M5	M5 x 0.8	●	●				6, 10, 16, 20
ASG32□F-01	R 1/8	●	●	●			20, 25, 32
ASG42□F-02	R 1/4		●	●	●		20, 25, 32, 40
ASG52□F-03	R 3/8			●	●	●	40, 50, 63
ASG62□F-04	R 1/2					●	63, 80, 100

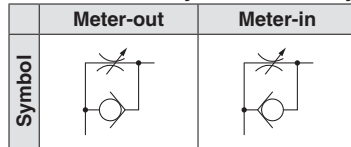
Specifications

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)
Number of needle rotations	10 turns (8 turns ^{Note 1)})
Applicable tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane ^{Note 3)} , Polyolefin

Note 1) In case of ASG22□F-M5

Note 2) Please be cautious of the max. operating pressure when soft nylon or polyurethane tubing is used.

Note 3) When polyurethane tubing is used, please use an inner sleeve.

Elbow Type
ASG
Symbol
Flow Direction Symbols on Body


Applicable tubing O.D. [mm]	Connection thread	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 4	M5 x 0.8	ASG220F-M5-04	ASG221F-M5-04
	R 1/8	ASG320F-01-04S	ASG321F-01-04S
Ø 6	M5 x 0.8	ASG220F-M5-06	ASG221F-M5-06
	R 1/8	ASG320F-01-06S	ASG321F-01-06S
	R 1/4	ASG420F-02-06S	ASG421F-02-06S
Ø 8	R 1/8	ASG320F-01-08S	ASG321F-01-08S
	R 1/4	ASG420F-02-08S	ASG421F-02-08S
	R 3/8	ASG520F-03-08S	ASG521F-03-08S
Ø 10	R 1/4	ASG420F-02-10S	ASG421F-02-10S
	R 3/8	ASG520F-03-10S	ASG521F-03-10S
Ø 12	R 3/8	ASG520F-03-12S	ASG521F-03-12S
	R 1/2	ASG620F-04-12S	ASG621F-04-12S

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASGAS-FPQ/
FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R

AS-Q

Related

Clean Speed Controller with One-touch Fitting RoHS

AS-FPQ/FPG Series

Elbow Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

Clean

How to Order

AS 2 2 1 1 FP Q - 01 - 06 - □

Body size

1	M5 standard
2	1/8, 1/4 standard
3	3/8 standard
4	1/2 standard

Elbow

Control type

0	Meter-out
1	Meter-in

With One-touch fitting

Clean specifications

Metal parts material

Q	Brass (electroless nickel plated)
G	Stainless steel 304

Lock nut option

—	Hexagon lock nut
J	Round lock nut

Applicable tubing O.D. Metric size

04	Ø 4
06	Ø 6
08	Ø 8
10	Ø 10
12	Ø 12

Port size

M5	M5 x 0.8
01	R 1/8
02	R 1/4
03	R 3/8
04	R 1/2

AS-FPQ/Brass (electroless nickel plated)
Release button colour: Light grey



AS-FPG/Stainless steel 304
Release button colour: Light blue



Model

Port size	Applicable tubing O.D.					Elbow type	
	Metric size					Meter-out	Meter-in
	4	6	8	10	12		
M5 x 0.8	●	●				AS1201FP□-M5	AS1211FP□-M5
R 1/8	●	●	●			AS2201FP□-01	AS2211FP□-01
R 1/4	●	●	●	●		AS2201FP□-02	AS2211FP□-02
R 3/8		●	●	●	●	AS3201FP□-03	AS3211FP□-03
R 1/2				●	●	AS4201FP□-04	AS4211FP□-04

Specifications

Fluid	Air
Cleanliness class (ISO class)	Class 3 ^{Note 1)}
Proof pressure (20 °C)	1.5 MPa ^{Note 2)}
Max. operating pressure (20 °C)	1 MPa ^{Note 3)}
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Oil	Fluorine-based grease

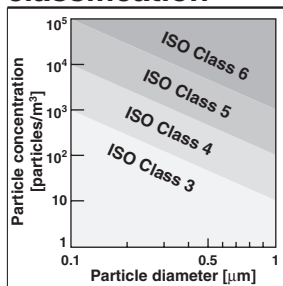
Note 1) Refer to particle generation classification.

Note 2) Proof pressure is 1.5 times higher than maximum operating pressure.

Note 3) The value of the maximum operating pressure is at a temperature of 20 °C.

In other cases, refer to "Relationship between Operating Temperature and Max. Operating Pressure" in the WEB catalogue at www.smc.eu

Particle generation classification





Note) Refer to the WEB catalogue at www.smc.eu for details.

Recommended Applicable Tubing

Tubing material	Clean series polyurethane tubing: Series 10-
Tubing O.D.	Ø 4, Ø 6, Ø 8, Ø 10, Ø 12

Polyurethane tubing: Series TU, Nylon tubing: Series T and Soft nylon tubing: Series TS can also be used. However, the degree of clean performance will decline.

Elbow Type
AS-FPQ/FPG
Symbol
Flow Direction Symbols on Body

	Meter-out	Meter-in
Symbol		

AS-FPQ/Brass (electroless nickel plated)

Applicable tubing O.D. [mm]	Uni thread	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 4	M5 x 0.8	AS1201FPQ-M5-04	AS1211FPQ-M5-04
	R 1/8	AS2201FPQ-01-04	AS2211FPQ-01-04
	R 1/4	AS2201FPQ-02-04	AS2211FPQ-02-04
Ø 6	M5 x 0.8	AS1201FPQ-M5-06	AS1211FPQ-M5-06
	R 1/8	AS2201FPQ-01-06	AS2211FPQ-01-06
	R 1/4	AS2201FPQ-02-06	AS2211FPQ-02-06
	R 3/8	AS3201FPQ-03-06	AS3211FPQ-03-06
Ø 8	R 1/8	AS2201FPQ-01-08	AS2211FPQ-01-08
	R 1/4	AS2201FPQ-02-08	AS2211FPQ-02-08
	R 3/8	AS3201FPQ-03-08	AS3211FPQ-03-08
Ø 10	R 1/4	AS2201FPQ-02-10	AS2211FPQ-02-10
	R 3/8	AS3201FPQ-03-10	AS3211FPQ-03-10
	R 1/2	AS4201FPQ-04-10	AS4211FPQ-04-10
Ø 12	R 3/8	AS3201FPQ-03-12	AS3211FPQ-03-12
	R 1/2	AS4201FPQ-04-12	AS4211FPQ-04-12

AS-FPG/Stainless steel 304

Applicable tubing O.D. [mm]	Uni thread	Model	
		Elbow type	
		Meter-out	Meter-in
Ø 4	M5 x 0.8	AS1201FPG-M5-04	AS1211FPG-M5-04
	R 1/8	AS2201FPG-01-04	AS2211FPG-01-04
	R 1/4	AS2201FPG-02-04	AS2211FPG-02-04
Ø 6	M5 x 0.8	AS1201FPG-M5-06	AS1211FPG-M5-06
	R 1/8	AS2201FPG-01-06	AS2211FPG-01-06
	R 1/4	AS2201FPG-02-06	AS2211FPG-02-06
	R 3/8	AS3201FPG-03-06	AS3211FPG-03-06
Ø 8	R 1/8	AS2201FPG-01-08	AS2211FPG-01-08
	R 1/4	AS2201FPG-02-08	AS2211FPG-02-08
	R 3/8	AS3201FPG-03-08	AS3211FPG-03-08
Ø 10	R 1/4	AS2201FPG-02-10	AS2211FPG-02-10
	R 3/8	AS3201FPG-03-10	AS3211FPG-03-10
	R 1/2	AS4201FPG-04-10	AS4211FPG-04-10
Ø 12	R 3/8	AS3201FPG-03-12	AS3211FPG-03-12
	R 1/2	AS4201FPG-04-12	AS4211FPG-04-12

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/
FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R

AS-Q

Related

Speed Controller for Low Speed Operation with One-touch Fitting RoHS

AS□□□/FM Series

Elbow Type/Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M5, R

Low Speed Control

How to Order

AS 2 2 0 1 FM - 01 - 06 □ - □ - □

Body size

1	M5 standard
2	1/8, 1/4 standard

Type

2	Elbow
3	Universal

Control type

0	Meter-out
1	Meter-in

With One-touch fitting

For low speed control

Port size

M5	M5 x 0.8
01	R 1/8
02	R 1/4

Lock nut option

—	Hexagon lock nut
J	Round lock nut

Made to Order
Refer to next page for details.

Seal method

—	Without sealant
S	With seal

* M5 is not available with seals.

Applicable tubing O.D.

Metric size

23	∅ 3.2*
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10

* Use ∅ 1/8" tube.

Ideal for low speed control at 10 to 50 mm/sec

Elbow type



Universal type



Model

Port size	Applicable tubing O.D.					Elbow type		Universal type	
	Metric size					Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10				
M5 x 0.8	●	●	●			AS1201FM-M5	AS1211FM-M5	AS1301FM-M5	AS1311FM-M5
R 1/8	●	●	●	●		AS2201FM-01	AS2211FM-01	AS2301FM-01	AS2311FM-01
R 1/4		●	●	●	●	AS2201FM-02	AS2211FM-02	AS2301FM-02	AS2311FM-02

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 ^{Note 1)}	Nylon, Soft nylon, Polyurethane
Option ^{Note 2)}	With seal

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.

(For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) M5 type port is not available with seal.

Note 3) Brass parts are all electroless nickel plated. The lock nut of the meter-out type is zinc chromate plated (the round lock nut is electroless nickel plated), then, the knob of the M5 type and the lock nut of the meter-in type are black zinc chromate plated.

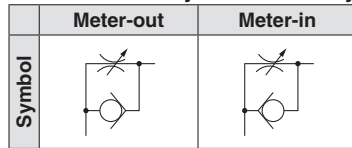
For inch size, refer to the **WEB catalogue** at www.smc.eu

Elbow Type/Universal Type

AS□□□1FM

Symbol

Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	M5 x 0.8	AS1201FM-M5-23	AS1211FM-M5-23	AS1301FM-M5-23	AS1311FM-M5-23
	R 1/8	AS2201FM-01-23S	AS2211FM-01-23S	AS2301FM-01-23S	AS2311FM-01-23S
Ø 4	M5 x 0.8	AS1201FM-M5-04	AS1211FM-M5-04	AS1301FM-M5-04	AS1311FM-M5-04
	R 1/8	AS2201FM-01-04S	AS2211FM-01-04S	AS2301FM-01-04S	AS2311FM-01-04S
	R 1/4	AS2201FM-02-04S	AS2211FM-02-04S	AS2301FM-02-04S	AS2311FM-02-04S
Ø 6	M5 x 0.8	AS1201FM-M5-06	AS1211FM-M5-06	AS1301FM-M5-06	AS1311FM-M5-06
	R 1/8	AS2201FM-01-06S	AS2211FM-01-06S	AS2301FM-01-06S	AS2311FM-01-06S
	R 1/4	AS2201FM-02-06S	AS2211FM-02-06S	AS2301FM-02-06S	AS2311FM-02-06S
Ø 8	R 1/8	AS2201FM-01-08S	AS2211FM-01-08S	AS2301FM-01-08S	AS2311FM-01-08S
	R 1/4	AS2201FM-02-08S	AS2211FM-02-08S	AS2301FM-02-08S	AS2311FM-02-08S
Ø 10	R 1/4	AS2201FM-02-10S	AS2211FM-02-10S	AS2301FM-02-10S	AS2311FM-02-10S

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline X12

Example) AS1201FM-M5-23-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) X21

Example) AS1201FM-M5-23-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) X214

Example) AS1201FM-M5-23-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

4 Clean Series 10-

Lubricant: Fluorine-based grease, Double package

Example) 10-AS1201FM-M5-23

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/
FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Speed Controller for Low Speed Operation

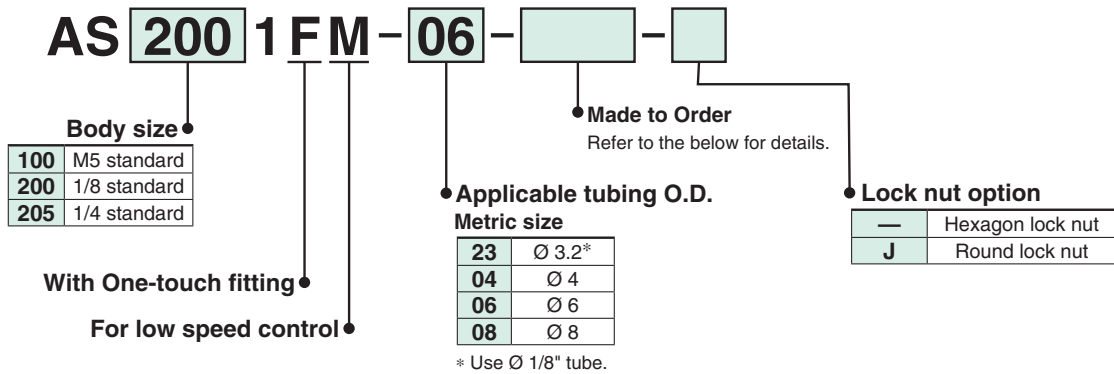
AS□1FM Series

In-line Type

■ Applicable tubing O.D. : Metric Size

Low Speed Control

How to Order



Model

Model	Applicable tubing O.D.			
	Metric size			
	3.2	4	6	8
AS1001FM	●	●	●	
AS2001FM		●	●	
AS2051FM			●	●

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 ^{Note 1)}	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

The knob of the M5 type is black zinc chromate plated.

In-line Type

AS□1FM

Ideal for low speed control at 10 to 50 mm/sec



Applicable tubing O.D. [mm]	Model
	In-line type
∅ 3.2	AS1001FM-23
	AS1001FM-04
∅ 4	AS2001FM-04
	AS1001FM-06
∅ 6	AS2001FM-06
	AS2051FM-06
∅ 8	AS2051FM-08

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) AS2001FM-04-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS2001FM-04-X21

Note) Not particle-free

3 Restrictor (Without check valve)

X214

Example) AS2001FM-04-X214

4 Clean Series

10-

Lubricant: Fluorine-based grease, Double package
Example) 10-AS2001FM-04

Dual Speed Controller for Low Speed Operation RoHS

ASD□30FM Series

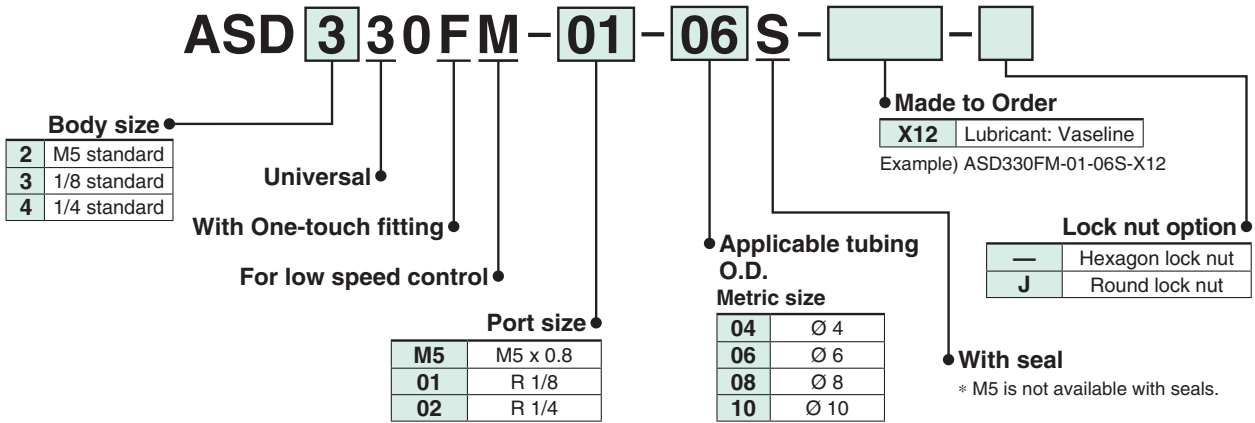
Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : M5, R

How to Order

Low Speed Control

Lurch Prevention



Model

Model	Port size	Applicable tubing O.D.			
		Metric size			
		4	6	8	10
ASD230FM-M5	M5 x 0.8	●	●		
ASD330FM-01	R 1/8		●	●	
ASD430FM-02	R 1/4		●	●	●

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 <small>Note 1)</small>	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated. The lock nut of the meter-out type is zinc chromate plated (the round lock nut is electroless nickel plated), then, the knob of the M5 type and the lock nut of the meter-in type are black zinc chromate plated.

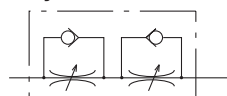
Universal Type

ASD□30FM

Two flow control valves and check valves integrated. Prevention of a stick-slip phenomenon, and speed control of a single acting cylinder. Stable speed control is achievable even with load fluctuations. Low speed control for small bore cylinders.



Symbol



Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 4	M5 x 0.8	ASD230FM-M5-04
	M5 x 0.8	ASD230FM-M5-06
Ø 6	R 1/8	ASD330FM-01-06S
	R 1/4	ASD430FM-02-06S
Ø 8	R 1/8	ASD330FM-01-08S
	R 1/4	ASD430FM-02-08S
Ø 10	R 1/4	ASD430FM-02-10S

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

2 Clean Series

10-

Example) ASD230FM-M5-X12

Lubricant: Fluorine-based grease, Double package
Example) 10-ASD230FM-M5

AS□□□1F-D Series

Elbow Type/Universal Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

How to Order

AS 2 2 1 1 F - 01 - 06 SD -

Body size

1	M5 standard
2	1/8, 1/4 standard
3	3/8 standard
4	1/2 standard

Type

2	Elbow
3	Universal

Control type

0	Meter-out
1	Meter-in

Port size

M5	M5 x 0.8
01	R 1/8
02	R 1/4
03	R 3/8
04	R 1/2

Applicable tubing O.D. Metric size

23	∅ 3.2*
04	∅ 4
06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12

* Use ∅ 1/8" tube.

With sealant
Note) In case that connecting port is either M5 thread, it is not available with seal. With gasket is provided as standard.

Made to Order
Refer to next page for details.

● Type adjustable by a flat head screwdriver

● With sealant

● Applicable tubing O.D.

● Port size

● Made to Order

● With One-touch fitting

Flow adjustable by flat head screwdriver
For safety measures

Elbow type



Universal type



Model

Port size	Applicable tubing O.D.						Elbow type		Universal type	
	Metric size						Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10	12				
M5 x 0.8	●	●	●				AS1201F-M5	AS1211F-M5	AS1301F-M5	AS1311F-M5
R 1/8	●	●	●	●	Note 1)	●	AS2201F-01	AS2211F-01	AS2301F-01	AS2311F-01
R 1/4		●	●	●	●		AS2201F-02	AS2211F-02	AS2301F-02	AS2311F-02
R 1/4			●	●	●	●	AS3201F-02	AS3211F-02	AS3301F-02	AS3311F-02
R 3/8			●	●	●	●	AS3201F-03	AS3211F-03	AS3301F-03	AS3311F-03
R 1/2					●	●	AS4201F-04	AS4211F-04	AS4301F-04	AS4311F-04

Note 1) Elbow type only

Note 2) Meter-out and meter-in types can be visually differentiated by the flow direction symbol on the 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 ^{Note1)}	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.

(For details, refer to the **WEB catalogue** at www.smc.eu)

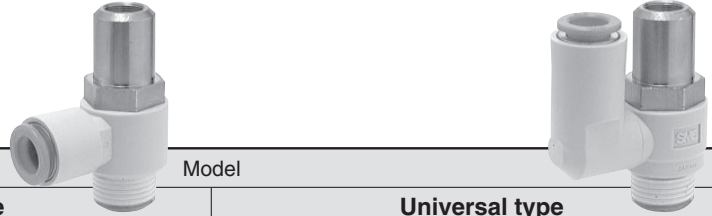
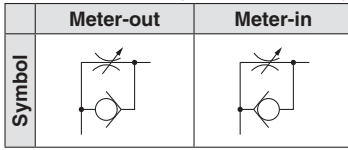
Note 2) Brass parts are all electroless nickel plated, provided as standard.

For inch size, refer to the **WEB catalogue** at www.smc.eu

Elbow Type/Universal Type

AS□□□1F-D

Symbol
Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	M5 x 0.8	AS1201F-M5-23D	AS1211F-M5-23D	AS1301F-M5-23D	AS1311F-M5-23D
	R 1/8	AS2201F-01-23SD	AS2211F-01-23SD	AS2301F-01-23SD	AS2311F-01-23SD
Ø 4	M5 x 0.8	AS1201F-M5-04D	AS1211F-M5-04D	AS1301F-M5-04D	AS1311F-M5-04D
	R 1/8	AS2201F-01-04SD	AS2211F-01-04SD	AS2301F-01-04SD	AS2311F-01-04SD
	R 1/4	AS2201F-02-04SD	AS2211F-02-04SD	AS2301F-02-04SD	AS2311F-02-04SD
Ø 6	M5 x 0.8	AS1201F-M5-06D	AS1211F-M5-06D	AS1301F-M5-06D	AS1311F-M5-06D
	R 1/8	AS2201F-01-06SD	AS2211F-01-06SD	AS2301F-01-06SD	AS2311F-01-06SD
	R 1/4	AS2201F-02-06SD	AS2211F-02-06SD	AS2301F-02-06SD	AS2311F-02-06SD
		AS3201F-02-06SD	AS3211F-02-06SD	AS3301F-02-06SD	AS3311F-02-06SD
R 3/8	AS3201F-03-06SD	AS3211F-03-06SD	AS3301F-03-06SD	AS3311F-03-06SD	
Ø 8	R 1/8	AS2201F-01-08SD	AS2211F-01-08SD	AS2301F-01-08SD	AS2311F-01-08SD
	R 1/4	AS2201F-02-08SD	AS2211F-02-08SD	AS2301F-02-08SD	AS2311F-02-08SD
		AS3201F-02-08SD	AS3211F-02-08SD	AS3301F-02-08SD	AS3311F-02-08SD
R 3/8	AS3201F-03-08SD	AS3211F-03-08SD	AS3301F-03-08SD	AS3311F-03-08SD	
Ø 10	R 1/8	AS2201F-01-10SD	AS2211F-01-10SD	—	—
	R 1/4	AS2201F-02-10SD	AS2211F-02-10SD	AS2301F-02-10SD	AS2311F-02-10SD
		AS3201F-02-10SD	AS3211F-02-10SD	AS3301F-02-10SD	AS3311F-02-10SD
	R 3/8	AS3201F-03-10SD	AS3211F-03-10SD	AS3301F-03-10SD	AS3311F-03-10SD
R 1/2	AS4201F-04-10SD	AS4211F-04-10SD	AS4301F-04-10SD	AS4311F-04-10SD	
Ø 12	R 1/4	AS3201F-02-12SD	AS3211F-02-12SD	AS3301F-02-12SD	AS3311F-02-12SD
	R 3/8	AS3201F-03-12SD	AS3211F-03-12SD	AS3301F-03-12SD	AS3311F-03-12SD
	R 1/2	AS4201F-04-12SD	AS4211F-04-12SD	AS4301F-04-12SD	AS4311F-04-12SD

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline X12

Example) AS1201F-M5-23D-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) X21

Example) AS1201F-M5-23D-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) X214

Example) AS1201F-M5-23D-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

- AS
- AS-FS
- AS-1F
- AS·P
- AS·F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS·FM
- ASD-FM
- AS·F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

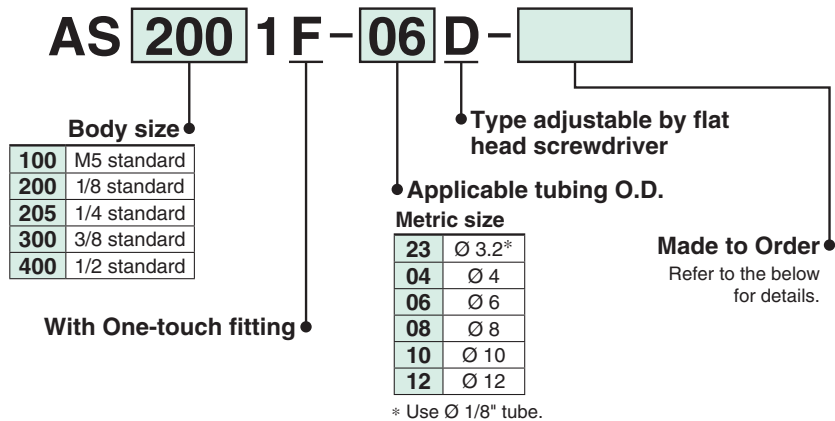
Speed Controller Adjustable by Flat Head Screwdriver

AS□1F-D Series

In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order



Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1001F	●	●	●			
AS2001F		●	●			
AS2051F			●	●		
AS3001F			●	●	●	●
AS4001F					●	●

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 ^{Note 1)}	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

In-line Type

AS□1F-D

Flow adjustable by flat head screwdriver
For safety measures



Symbol



Applicable tubing O.D. [mm]	Model	Applicable tubing O.D. [mm]	Model
	In-line type		In-line type
∅ 3.2	AS1001F-23D	∅ 8	AS2051F-08D
	AS1001F-04D		AS3001F-08D
∅ 4	AS2001F-04D	∅ 10	AS3001F-10D
	AS1001F-06D		AS4001F-10D
∅ 6	AS2001F-06D	∅ 12	AS3001F-12D
	AS2051F-06D		AS4001F-12D
	AS3001F-06D		

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) AS1001F-23D-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS1001F-23D-X21

Note) Not particle-free

3 Restrictor (Without check valve)

X214

Example) AS1001F-23D-X214

243

Dual Speed Controller Adjustable by Flat Head Screwdriver



Speed
Controllers

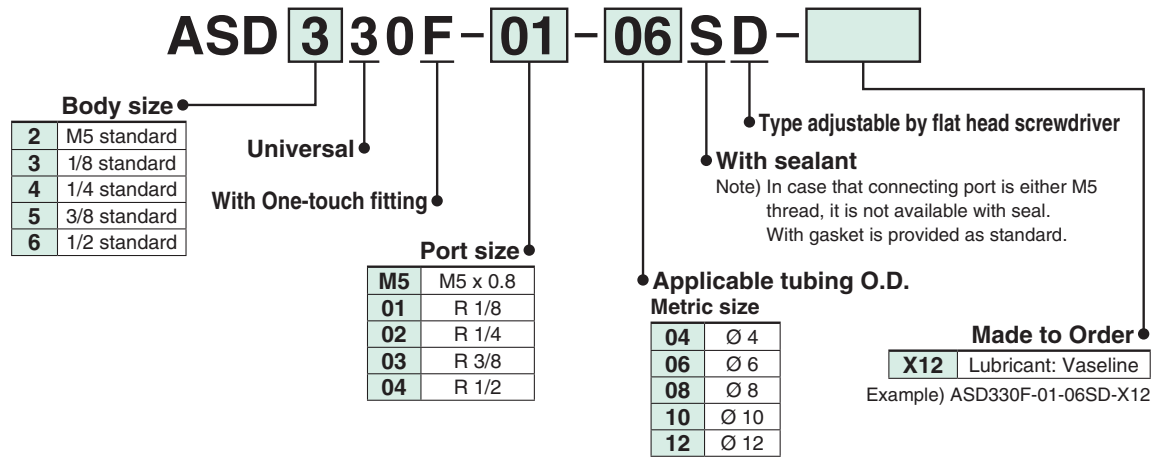
ASD□30F-D Series

Universal Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

Lurch Prevention

How to Order



Model

Model	Port size	Applicable tubing O.D.				
		Metric size				
		4	6	8	10	12
ASD230F-M5	M5 x 0.8	●	●			
ASD330F-01	R 1/8		●	●		
ASD430F-02	R 1/4		●	●	●	
ASD530F-02	R 1/4		●	●	●	●
ASD530F-03	R 3/8		●	●	●	●
ASD630F-04	R 1/2				●	●

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 <small>Note 1)</small>	Nylon, Soft nylon, Polyurethane

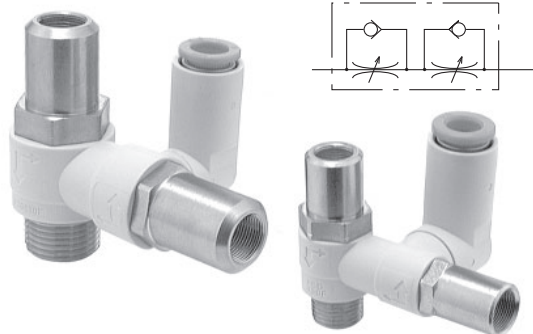
Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

Universal Type

ASD□30F-D

Prevention of stick-slip phenomenon, and speed control of a single acting cylinder. Flow adjustable by flat head screwdriver. For safety measures



Symbol

Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 4	M5 x 0.8	ASD230F-M5-04D
	M5 x 0.8	ASD230F-M5-06D
Ø 6	R 1/8	ASD330F-01-06SD
	R 1/4	ASD430F-02-06SD
		ASD530F-02-06SD
	R 3/8	ASD530F-03-06SD
	R 1/8	ASD330F-01-08SD
Ø 8	R 1/4	ASD430F-02-08SD
		ASD530F-02-08SD
	R 3/8	ASD530F-03-08SD

For inch size, refer to the **WEB catalogue** at www.smc.eu

Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 10	R 1/4	ASD430F-02-10SD
		ASD530F-02-10SD
	R 3/8	ASD530F-03-10SD
	R 1/2	ASD630F-04-10SD
Ø 12	R 1/4	ASD530F-02-12SD
	R 3/8	ASD530F-03-12SD
	R 1/2	ASD630F-04-12SD



Made to Order

1 Lubricant: Vaseline

X12

Example) ASD230F-M5-04D-X12



AS
AS-FS
AS-1F
AS-P
AS-F
AS-W2D
AS-X737
AS-2F
AS-1F-3
AS-DPP
ASD
Uni-AS
Uni-AS-FS
Uni-AS-1F
AS-FE
AS-FG
AS-FSG
AS-1FG
ASD-FG
ASG
AS-FPQ/
FPG
AS-FM
ASD-FM
AS-F-D
ASD-F-D
AS-F-T
ASD-F-T
ASP
ASV
AS-R
AS-Q
Related

Tamper Proof Speed Controller

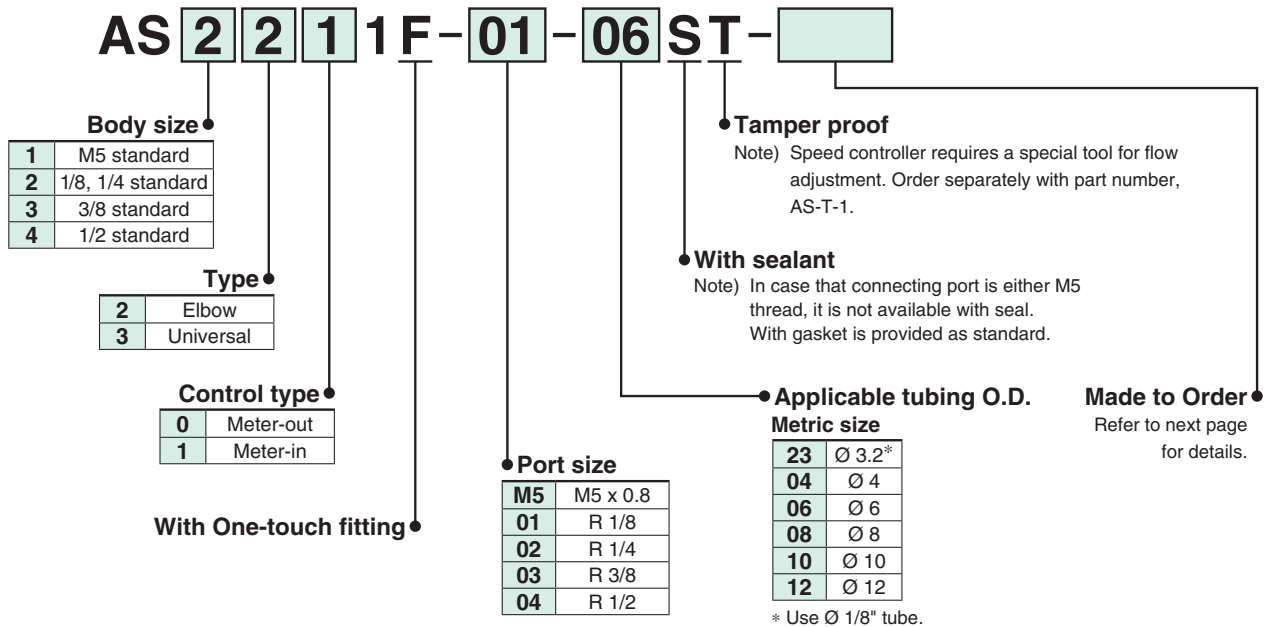
RoHS

AS□□□1F-T Series

Elbow Type/Universal Type

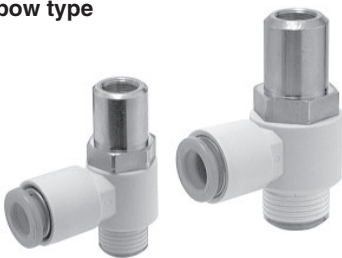
■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

How to Order



Able to adjust flow by a special tool
For safety measures

Elbow type



Universal type



Special tool (AS-T-1)



Model

Port size	Applicable tubing O.D.						Elbow type		Universal type	
	Metric size						Meter-out	Meter-in	Meter-out	Meter-in
	3.2	4	6	8	10	12				
M5 x 0.8	●	●	●				AS1201F-M5	AS1211F-M5	AS1301F-M5	AS1311F-M5
R 1/8	●	●	●	●	Note 1)		AS2201F-01	AS2211F-01	AS2301F-01	AS2311F-01
R 1/4		●	●	●	●		AS2201F-02	AS2211F-02	AS2301F-02	AS2311F-02
R 1/4			●	●	●	●	AS3201F-02	AS3211F-02	AS3301F-02	AS3311F-02
R 3/8			●	●	●	●	AS3201F-03	AS3211F-03	AS3301F-03	AS3311F-03
R 1/2					●	●	AS4201F-04	AS4211F-04	AS4301F-04	AS4311F-04

Note 1) Elbow type only

Note 2) Meter-out and meter-in types can be visually differentiated by the flow direction symbol on the 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 ^{Note 1)}	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated, provided as standard.

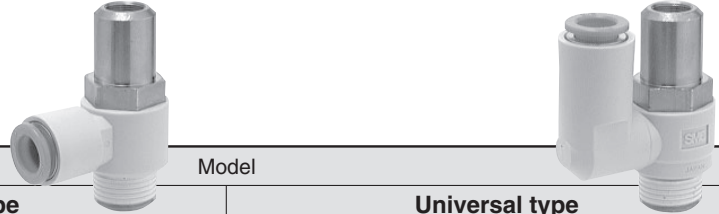
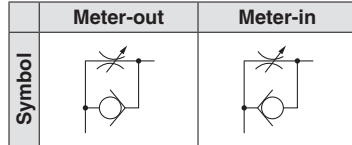
For inch size, refer to the **WEB catalogue** at www.smc.eu

Elbow Type/Universal Type

AS□□□1F-T

Symbol

Flow Direction Symbols on Body



Applicable tubing O.D. [mm]	Uni thread	Model			
		Elbow type		Universal type	
		Meter-out	Meter-in	Meter-out	Meter-in
Ø 3.2	M5 x 0.8	AS1201F-M5-23T	AS1211F-M5-23T	AS1301F-M5-23T	AS1311F-M5-23T
	R 1/8	AS2201F-01-23ST	AS2211F-01-23ST	AS2301F-01-23ST	AS2311F-01-23ST
Ø 4	M5 x 0.8	AS1201F-M5-04T	AS1211F-M5-04T	AS1301F-M5-04T	AS1311F-M5-04T
	R 1/8	AS2201F-01-04ST	AS2211F-01-04ST	AS2301F-01-04ST	AS2311F-01-04ST
	R 1/4	AS2201F-02-04ST	AS2211F-02-04ST	AS2301F-02-04ST	AS2311F-02-04ST
Ø 6	M5 x 0.8	AS1201F-M5-06T	AS1211F-M5-06T	AS1301F-M5-06T	AS1311F-M5-06T
	R 1/8	AS2201F-01-06ST	AS2211F-01-06ST	AS2301F-01-06ST	AS2311F-01-06ST
	R 1/4	AS2201F-02-06ST	AS2211F-02-06ST	AS2301F-02-06ST	AS2311F-02-06ST
		AS3201F-02-06ST	AS3211F-02-06ST	AS3301F-02-06ST	AS3311F-02-06ST
R 3/8	AS3201F-03-06ST	AS3211F-03-06ST	AS3301F-03-06ST	AS3311F-03-06ST	
Ø 8	R 1/8	AS2201F-01-08ST	AS2211F-01-08ST	AS2301F-01-08ST	AS2311F-01-08ST
	R 1/4	AS2201F-02-08ST	AS2211F-02-08ST	AS2301F-02-08ST	AS2311F-02-08ST
		AS3201F-02-08ST	AS3211F-02-08ST	AS3301F-02-08ST	AS3311F-02-08ST
	R 3/8	AS3201F-03-08ST	AS3211F-03-08ST	AS3301F-03-08ST	AS3311F-03-08ST
Ø 10	R 1/8	AS2201F-01-10ST	AS2211F-01-10ST	—	—
	R 1/4	AS2201F-02-10ST	AS2211F-02-10ST	AS2301F-02-10ST	AS2311F-02-10ST
		AS3201F-02-10ST	AS3211F-02-10ST	AS3301F-02-10ST	AS3311F-02-10ST
	R 3/8	AS3201F-03-10ST	AS3211F-03-10ST	AS3301F-03-10ST	AS3311F-03-10ST
	R 1/2	AS4201F-04-10ST	AS4211F-04-10ST	AS4301F-04-10ST	AS4311F-04-10ST
Ø 12	R 1/4	AS3201F-02-12ST	AS3211F-02-12ST	AS3301F-02-12ST	AS3311F-02-12ST
	R 3/8	AS3201F-03-12ST	AS3211F-03-12ST	AS3301F-03-12ST	AS3311F-03-12ST
	R 1/2	AS4201F-04-12ST	AS4211F-04-12ST	AS4301F-04-12ST	AS4311F-04-12ST

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu



Made to Order

1 Lubricant: Vaseline X12

Example) AS1201F-M5-23T-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve) X21

Example) AS1201F-M5-23T-X21

Note 1) Not particle-free

Note 2) The restrictor is only compatible with the part number of the meter-out type.

3 Restrictor (Without check valve) X214

Example) AS1201F-M5-23T-X214

Note) The restrictor is only compatible with the part number of the meter-out type.

- AS
- AS-FS
- AS-1F
- AS·P
- AS·F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Tamper Proof Speed Controller

AS□1F-T Series

In-line Type

■ Applicable tubing O.D. : Metric Size

How to Order

AS 200 1 F - 06 T -

Body size

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

With One-touch fitting

Made to Order
Refer to next page for details.

Tamper proof
Note) Speed controller requires a special tool for flow adjustment.
Order separately with part number, AS-T-1.

Applicable tubing O.D.
Metric size

23	∅ 3.2*	08	∅ 8
04	∅ 4	10	∅ 10
06	∅ 6	12	∅ 12

* Use ∅ 1/8" tube.

Model

Model	Applicable tubing O.D.					
	Metric size					
	3.2	4	6	8	10	12
AS1001F	●	●	●			
AS2001F		●	●			
AS2051F			●	●		
AS3001F			●	●	●	●
AS4001F					●	●

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 ^{Note 1)}	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Note 2) Brass parts are all electroless nickel plated.

In-line Type

AS□1F-T

Able to adjust flow by a special tool
For safety measures



Applicable tubing O.D. [mm]	Model	Applicable tubing O.D. [mm]	Model
	In-line type		In-line type
∅ 3.2	AS1001F-23T	∅ 8	AS2051F-08T
	AS1001F-04T		AS3001F-08T
∅ 4	AS2001F-04T		∅ 10
	AS1001F-06T	AS4001F-10T	
∅ 6	AS2001F-06T	∅ 12	AS3001F-12T
	AS2051F-06T		AS4001F-12T
	AS3001F-06T		

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) AS1001F-23T-X12

2 Grease-free (Seal: Fluorine-coated) + Restrictor (Without check valve)

X21

Example) AS1001F-23T-X21

Note) Not particle-free

3 Restrictor (Without check valve)

X214

Example) AS1001F-23T-X214

Tamper Proof Dual Speed Controller



ASD□30F-T Series

Universal Type

■Applicable tubing O.D. : Metric Size ■Connection thread : M5, R

Lurch Prevention

How to Order

ASD 3 30F-01-06 ST- []

Body size

2	M5 standard
3	1/8 standard
4	1/4 standard
5	3/8 standard
6	1/2 standard

Universal

With One-touch fitting

Port size

M5	M5 x 0.8
01	R 1/8
02	R 1/4
03	R 3/8
04	R 1/2

Tamper proof
Note) Speed controller requires a special tool for flow adjustment. Order separately with part number, AS-T-1.

With sealant
Note) In case that connecting port is either M5 thread, it is not available with seal. With gasket is provided as standard.

Applicable tubing O.D.

Metric size

04	Ø 4
06	Ø 6
08	Ø 8
10	Ø 10
12	Ø 12

Made to Order

X12 Lubricant: Vaseline
Example) ASD330F-01-06ST-X12

Model

Model	Port size	Applicable tubing O.D.				
		Metric size				
		4	6	8	10	12
ASD230F-M5	M5 x 0.8	●	●			
ASD330F-01	R 1/8		●	●		
ASD430F-02	R 1/4		●	●	●	
ASD530F-02	R 1/4		●	●	●	●
ASD530F-03	R 3/8		●	●	●	●
ASD630F-04	R 1/2				●	●

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 <small>Note 1)</small>	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)
Note 2) Brass parts are all electroless nickel plated, provided as standard.

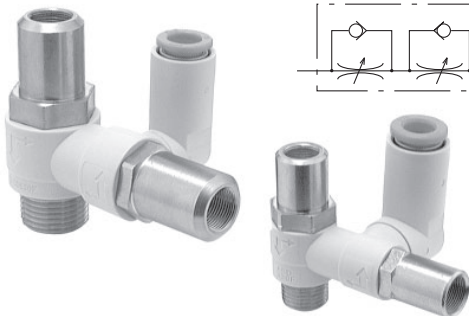
Universal Type

ASD□30F-T

Prevention of stick-slip phenomenon, and speed control of a single acting cylinder.

Able to adjust flow by a special tool
For safety measures

Symbol



Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 4	M5 x 0.8	ASD230F-M5-04T
	M5 x 0.8	ASD230F-M5-06T
	R 1/8	ASD330F-01-06ST
Ø 6	R 1/8	ASD330F-01-06ST
	R 1/4	ASD430F-02-06ST
		ASD530F-02-06ST
	R 3/8	ASD530F-03-06ST
	R 1/8	ASD330F-01-08ST
Ø 8	R 1/4	ASD430F-02-08ST
		ASD530F-02-08ST
	R 3/8	ASD530F-03-08ST

Applicable tubing O.D. [mm]	Connection thread	Model
		Universal type
Ø 10	R 1/4	ASD430F-02-10ST
		ASD530F-02-10ST
	R 3/8	ASD530F-03-10ST
Ø 12	R 1/2	ASD630F-04-10ST
	R 1/4	ASD530F-02-12ST
	R 3/8	ASD530F-03-12ST
	R 1/2	ASD630F-04-12ST

For inch size, refer to the **WEB catalogue** at www.smc.eu



Made to Order

1 Lubricant: Vaseline

X12

Example) ASD230F-M5-04T-X12

Speed Controller with Pilot Check Valve RoHS

ASP□30F Series

Universal Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : R

Drop Prevention

How to Order

ASP 3 30F - 01 - 06 S - [] - []

- Pilot check valve**
- Body size**

3	1/8 standard
4	1/4 standard
5	3/8 standard
6	1/2 standard
- Universal**
- With One-touch fitting**
- With seal**
- Applicable tubing O.D. Metric size**

06	∅ 6
08	∅ 8
10	∅ 10
12	∅ 12
- Lock nut option**

—	Hexagon lock nut
J	Round lock nut
- Made to Order**

X12	Lubricant: Vaseline
-----	---------------------

Example) ASP330F-01-08S-X12
- Port size**

Symbol	Cylinder side	Pilot port
01	R 1/8	M5 x 0.8
02	R 1/4	Rc 1/8
03	R 3/8	Rc 1/8
04	R 1/2	Rc 1/4

Model

Model	Port size	Applicable tubing O.D.				Pilot port
		Metric size				
		16	8	10	12	
ASP330F-01	R 1/8	●	●			M5 x 0.8
ASP430F-02	R 1/4	●	●			Rc 1/8
ASP530F-03	R 3/8		●	●		Rc 1/8
ASP630F-04	R 1/2			●	●	Rc 1/4

Note) Brass parts are all electroless nickel plated.

Specifications

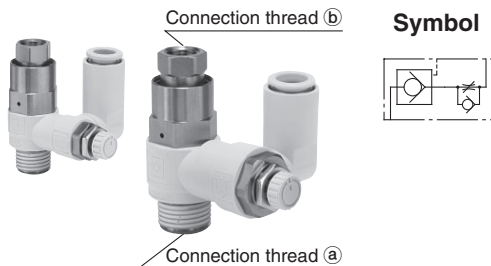
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Pilot check valve operating pressure	More than 50 % the operating pressure (Over 0.1 MPa)
Ambient and fluid temperature	-5 to 60 °C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **WEB catalogue** at www.smc.eu)

Universal Type

ASP□30F

Built-in pilot check valve for drop prevention.
Temporary intermediate stop. Emergency stop



Applicable tubing O.D. [mm]	Connection thread (a) (cylinder side)	Connection thread (b) (pilot port)	Model
			Universal type
∅ 6	R 1/8	M5 x 0.8	ASP330F-01-06S
	R 1/4	Rc 1/8	ASP430F-02-06S
∅ 8	R 1/8	M5 x 0.8	ASP330F-01-08S
	R 1/4	Rc 1/8	ASP430F-02-08S
	R 3/8	Rc 1/8	ASP530F-03-08S
∅ 10	R 3/8	Rc 1/8	ASP530F-03-10S
	R 1/2	Rc 1/4	ASP630F-04-10S
∅ 12	R 1/2	Rc 1/4	ASP630F-04-12S

For inch size, refer to the **WEB catalogue** at www.smc.eu

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) ASP330F-01-06S-X12

Speed Exhaust Controller

RoHS

ASV Series

Elbow Type/Tee Type

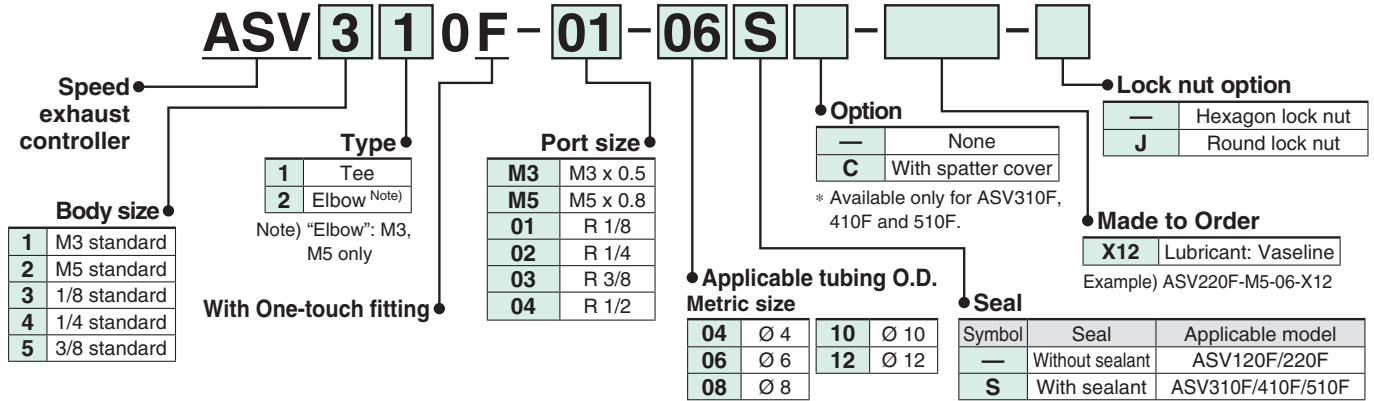
■ Applicable tubing O.D. : Metric Size ■ Connection thread : M, R

Spatter Proof

Quick Exhaust

How to Order

(Tee type only)



Model

Model	Port size	Applicable tubing O.D.				
		Metric size				
		4	6	8	10	12
ASV120F-M3	M3 x 0.5	●				
ASV220F-M5	M5 x 0.8	●	●			
ASV310F-01	R 1/8		●	●		
ASV310F-02	R 1/4		●	●		
ASV410F-01	R 1/8			●	●	
ASV410F-02	R 1/4			●	●	
ASV410F-03	R 3/8			●	●	
ASV510F-02	R 1/4				●	●
ASV510F-03	R 3/8				●	●
ASV510F-04	R 1/2				●	●

Specifications

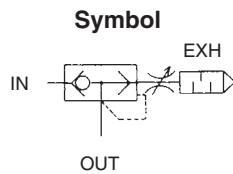
Series	ASV120F	ASV220F	ASV310F/410F	ASV510F
Fluid	Air			
Proof pressure	1.5 MPa			
Max. operating pressure	1 MPa			
Min. operating pressure	0.1 MPa			
Ambient and fluid temperature	-5 to 60 °C (No freezing)			
Applicable tubing material ^{Note)}	Nylon, Soft nylon, Polyurethane			
Option	Round lock nut		With spatter cover, Round lock nut	

Note 1) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the WEB catalogue at www.smc.eu)

Elbow Type/Tee

ASV

Integration of a quick exhaust valve and an exhaust restrictor permits high-speed cylinder operation.



Applicable tubing O.D. [mm]	Connection thread	Model
		Elbow
Ø 4	M3 x 0.5	ASV120F-M3-04
	M5 x 0.8	ASV220F-M5-04
Ø 6	M5 x 0.8	ASV220F-M5-06
Ø 6	R 1/8	ASV310F-01-06S
	R 1/4	ASV310F-02-06S
Ø 8	R 1/8	ASV310F-01-08S
	R 1/4	ASV310F-02-08S
	R 1/8	ASV410F-01-08S

Applicable tubing O.D. [mm]	Connection thread	Model
		Tee
Ø 8	R 1/4	ASV410F-02-08S
	R 3/8	ASV410F-03-08S
Ø 10	R 1/8	ASV410F-01-10S
	R 1/4	ASV410F-02-10S
	R 3/8	ASV410F-03-10S
	R 1/4	ASV510F-02-10S
	R 3/8	ASV510F-03-10S
Ø 10	R 1/2	ASV510F-04-10S
	R 1/4	ASV510F-02-12S
	R 3/8	ASV510F-03-12S
	R 1/2	ASV510F-04-12S

Made to Order

Made to Order

1 Lubricant: Vaseline

X12

Example) ASV120F-M3-04-X12

Note) Only for ASV120F and ASV220F



Speed Controllers
AS
AS-FS
AS-1F
AS-P
AS-F
AS-W2D
AS-X737
AS-2F
AS-1F-3
AS-DPP
ASD
Uni-AS
Uni-AS-FS
Uni-AS-1F
AS-FE
AS-FG
AS-FSG
AS-1FG
ASD-FG
ASG
AS-FPQ/FPG
AS-FM
ASD-FM
AS-F-D
ASD-F-D
AS-F-T
ASD-F-T
ASP
ASV
AS-R
AS-Q
Related

Air Saving Speed Controller

RoHS

Push-lock type

AS-R / AS-Q Series

Elbow Type

■ Applicable tubing O.D. : Metric Size ■ Connection thread : R, G

How to Order

AS-R



With pressure reduction function

With pressure reduction function

* Knob color: White

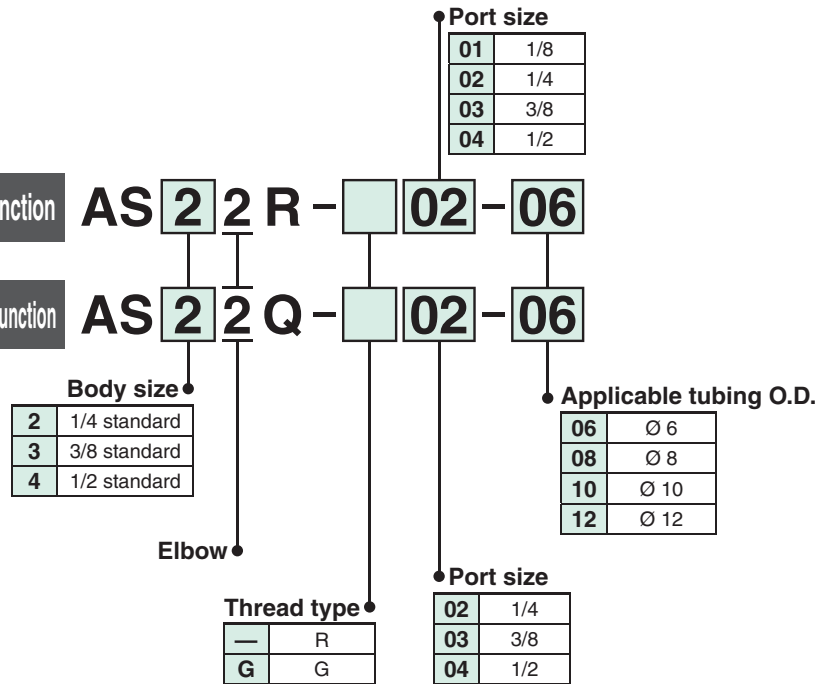
AS-Q



With rapid supply and exhaust function

With rapid supply and exhaust function

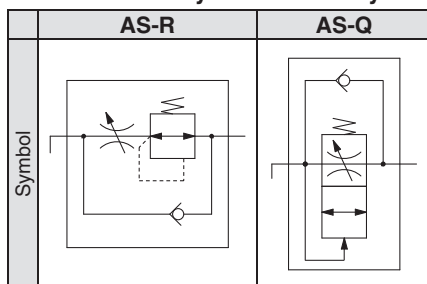
* Knob color: Light blue



Model

Model	Port size	Applicable tubing O.D.							
		Metric size (Applicable thread: R, G)				Inch size (Applicable thread: NPT)			
		6	8	10	12	1/4"	5/16"	3/8"	1/2"
AS22R-□01-□	—	●	●	●		●	●		
AS22R-□02-□	AS22Q-□02-□	●	●	●		●	●		
AS32R-□02-□	AS32Q-□02-□	●	●	●			●	●	
AS32R-□03-□	AS32Q-□03-□	●	●	●			●	●	
AS42R-□03-□	AS42Q-□03-□			●	●			●	●
AS42R-□04-□	AS42Q-□04-□			●	●			●	●

Flow Direction Symbols on Body



Specifications

Item	With pressure reduction function	With rapid supply and exhaust function
	AS-R	AS-Q
Fluid	Air	
Proof pressure	1.05 MPa	
Maximum operating pressure	0.7 MPa	
Minimum operating pressure	0.3 MPa	
Set pressure	0.2 MPa	—
(Supply pressure at 0.5 MPa)	Minimum pressure for pressure reduction function	Minimum pressure for rapid supply function initiation
	—	0.2 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)	
Applicable tubing material	Nylon, Soft nylon, Polyurethane*1 FEP, PFA	

*1 Use caution at the maximum operating pressure when using soft nylon or polyurethane tubing. (For details, refer to the **Web Catalog** or Best Pneumatics.)

Air Saving Valve

RoHS

Speed
Controllers

Push-lock type

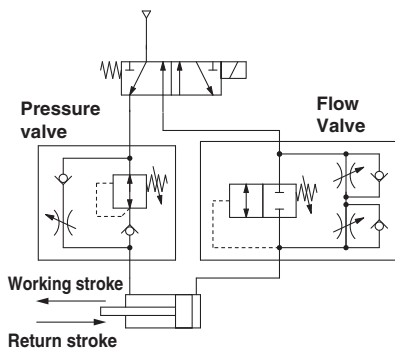
ASR / ASQ Series

Elbow Type

■Applicable tubing O.D. : Metric Size ■Connection thread : R

40 % reduction in air consumption

It is not necessary to supply high pressure to both sides of the piston operation. It is enough to supply pressure (0.2 MPa) that ensures only smooth operation within the set time to the non-working side. Reduction system with the PFC valve and QFC valve cuts the consumption amount by 40 %, reducing running costs and equipment costs greatly.

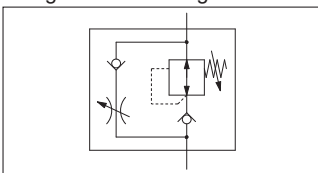


Pressure Valve Series ASR

Regulator with check valve + Speed controller



Regulator with check valve and flow control valve integrated into a single construction

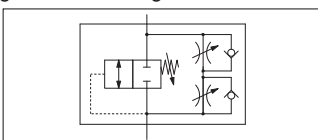


Flow Valve Series ASQ

Quick supply and exhaust valve + Speed controller (Meter-in, Meter-out)



Pilot valve and two-way flow control valve integrated into a single construction



How to Order

ASR 4 30 F - 02 - 06 S - F20 - []

- Model**
 - ASR Pressure valve
 - ASQ Flow valve
- Body size**
 - 4 1/4 standard
 - 5 3/8 standard
 - 6 1/2 standard
- Type**
 - 3 Universal
- With One-touch fitting**
- Port size**
 - 02 R 1/4
 - 03 R 3/8
 - 04 R 1/2
- Applicable tubing O.D.**
 - 06 Ø 6
 - 08 Ø 8
 - 10 Ø 10
 - 12 Ø 12
- Lock nut option**
 - Hexagon lock nut
 - J Round lock nut
- Option**
 - Variable set pressure type (0.1 to 0.3 MPa)
 - F20 Fixed set pressure type (0.2 MPa)
- With seal**

Model

Model		Port size	Applicable tubing O.D. [mm]			
Pressure valve	Flow Valve		6	8	10	12
ASR430F-02	ASQ430F-02	R 1/4	●	●	●	
ASR530F-02	ASQ530F-02	R 1/4	●	●	●	●
ASR530F-03	ASQ530F-03	R 3/8	●	●	●	●
ASR630F-03	ASQ630F-03	R 3/8			●	●
ASR630F-04	ASQ630F-04	R 1/2			●	●

Specifications

Fluid	Air	
Proof pressure	1.5 MPa	
Maximum operating pressure	1 MPa	
Set pressure range	Variable	0.1 to 0.3 MPa
	Fixed (option)	0.2 MPa
Ambient and fluid temperature	-5 to 60 °C (No freezing)	
Applicable tubing material	Nylon, Soft nylon, Polyurethane	

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
- Related

Air Saving Valve Pressure Valve/Flow Valve

ASR/ASQ Series

Pressure valve: ASR



Variable Set Pressure Type

Applicable tubing O.D. [mm]	Connection thread	Model
Ø 6	R 1/4	ASR430F-02-06S
	R 1/4	ASR530F-02-06S
	R 3/8	ASR530F-03-06S
Ø 8	R 1/4	ASR430F-02-08S
	R 1/4	ASR530F-02-08S
	R 3/8	ASR530F-03-08S
Ø 10	R 1/4	ASR430F-02-10S
	R 1/4	ASR530F-02-10S
	R 3/8	ASR530F-03-10S
	R 3/8	ASR630F-03-10S
Ø 12	R 1/2	ASR630F-04-10S
	R 1/4	ASR530F-02-12S
	R 3/8	ASR530F-03-12S
	R 3/8	ASR630F-03-12S
	R 1/2	ASR630F-04-12S

Fixed Set Pressure Type

Applicable tubing O.D. [mm]	Connection thread	Model
Ø 6	R 1/4	ASR430F-02-06S-F20
	R 1/4	ASR530F-02-06S-F20
	R 3/8	ASR530F-03-06S-F20
Ø 8	R 1/4	ASR430F-02-08S-F20
	R 1/4	ASR530F-02-08S-F20
	R 3/8	ASR530F-03-08S-F20
Ø 10	R 1/4	ASR430F-02-10S-F20
	R 1/4	ASR530F-02-10S-F20
	R 3/8	ASR530F-03-10S-F20
	R 3/8	ASR630F-03-10S-F20
Ø 12	R 1/2	ASR630F-04-10S-F20
	R 1/4	ASR530F-02-12S-F20
	R 3/8	ASR530F-03-12S-F20
	R 3/8	ASR630F-03-12S-F20
	R 1/2	ASR630F-04-12S-F20

Flow valve: ASQ



Variable Set Pressure Type

Applicable tubing O.D. [mm]	Connection thread	Model
Ø 6	R 1/4	ASQ430F-02-06S
	R 1/4	ASQ530F-02-06S
	R 3/8	ASQ530F-03-06S
Ø 8	R 1/4	ASQ430F-02-08S
	R 1/4	ASQ530F-02-08S
	R 3/8	ASQ530F-03-08S
Ø 10	R 1/4	ASQ430F-02-10S
	R 1/4	ASQ530F-02-10S
	R 3/8	ASQ530F-03-10S
	R 3/8	ASQ630F-03-10S
Ø 12	R 1/2	ASQ630F-04-10S
	R 1/4	ASQ530F-02-12S
	R 3/8	ASQ530F-03-12S
	R 3/8	ASQ630F-03-12S
	R 1/2	ASQ630F-04-12S

Fixed Set Pressure Type

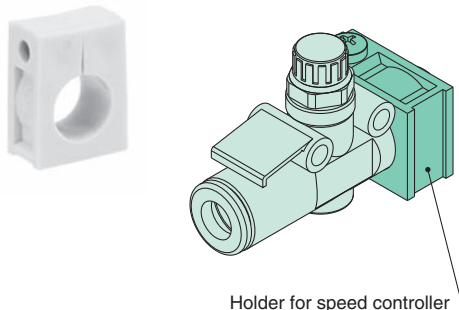
Applicable tubing O.D. [mm]	Connection thread	Model
Ø 6	R 1/4	ASQ430F-02-06S-F20
	R 1/4	ASQ530F-02-06S-F20
	R 3/8	ASQ530F-03-06S-F20
Ø 8	R 1/4	ASQ430F-02-08S-F20
	R 1/4	ASQ530F-02-08S-F20
	R 3/8	ASQ530F-03-08S-F20
Ø 10	R 1/4	ASQ430F-02-10S-F20
	R 1/4	ASQ530F-02-10S-F20
	R 3/8	ASQ530F-03-10S-F20
	R 3/8	ASQ630F-03-10S-F20
Ø 12	R 1/2	ASQ630F-04-10S-F20
	R 1/4	ASQ530F-02-12S-F20
	R 3/8	ASQ530F-03-12S-F20
	R 3/8	ASQ630F-03-12S-F20
	R 1/2	ASQ630F-04-12S-F20

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

Holder

TMH Series

A holder for securing a speed controller with One-touch fittings (In-line type)



Holder for speed controller

In-line Speed Controllers and Holders

Tubing size	Applicable series					
	23	04	06	08	10	12
Body size	Ø 3.2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
AS1002F	TMH-23J					
AS2002F		TMH-04J	TMH-06J			
AS2052F			TMH-06	TMH-08		
AS3002F			TMH-07		TMH-10	TMH-12
AS4002F						TMH-13

Residual Pressure Release Valve with One-touch Fitting

Series KE□

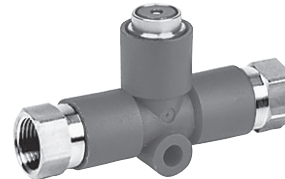
Residual pressure in the cylinder can be easily released with one push of the push button.

Residual Pressure Exhaust

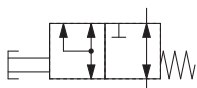
With One-touch fitting
without a push button guard

With One-touch fitting
with a push button guard

Rc thread
with a push button guard



Symbol



Applicable tubing O.D. [mm]	Model
Ø 6	KEA06
Ø 8	KEA08
Ø 10	KEA10
Ø 12	KEA12

Applicable tubing O.D. [mm]	Model
Ø 6	KEB06
Ø 8	KEB08
Ø 10	KEB10
Ø 12	KEB12

Connection thread	Model
Rc 1/4	KEC-02
Rc 3/8	KEC-03

Multi-holder

TMA Series

Can be used to secure the KE□ series exhaust valve with One-touch fitting.

One-touch fitting New KQ2, union tee, elbow, and straight can also be secured.



Model

Model	Stations	Applicable exhaust valve	Applicable One-touch fitting		
			Union tee	Union elbow	Straight union
TMA-04	10	—	KQ2T06-00A	KQ2L06-00A	KQ2H06-00A
TMA-06	8	KEA06	KQ2T08-00A	KQ2L08-00A	KQ2H08-00A
		KEB06			
TMA-08	8	KEA08	KQ2T10-00A	KQ2L10-00A	KQ2H10-00A
		KEB08			
		KEC-02			
TMA-10	6	KEA10	KQ2T12-00A	KQ2L12-00A	KQ2H12-00A
		KEB10			
TMA-12	6	KEA12	—	—	—
		KEB12			
		KEC-03			

AS

AS-FS

AS-1F

AS-P

AS-F

AS-W2D

AS-X737

AS-2F

AS-1F-3

AS-DPP

ASD

Uni-AS

Uni-AS-FS

Uni-AS-1F

AS-FE

AS-FG

AS-FSG

AS-1FG

ASD-FG

ASG

AS-FPQ/FPG

AS-FM

ASD-FM

AS-F-D

ASD-F-D

AS-F-T

ASD-F-T

ASP

ASV

AS-R

AS-Q

Related

Metering Valve with Silencer

RoHS **ASN2 Series**

Superior sound reducing performance

Over 20 dB at max. flow rate

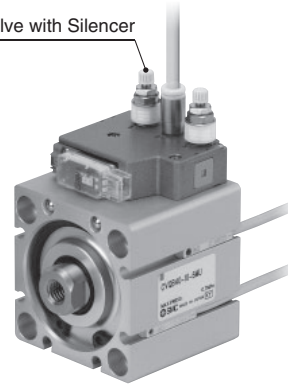
Cylinder speed easily set

Shape of needle is the same as that of speed controller

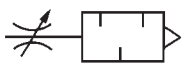
Retainer prevents accidental loss of needle

<Example of mounting> Connection to the EXH port of the cylinder with valve

Metering Valve with Silencer



Symbol



Model

Model	Port size
ASN2-M5	M5 x 0.8
ASN2-U10/32	10-32UNF
ASN2-01	1/8
ASN2-02	1/4
ASN2-03	3/8
ASN2-04	1/2

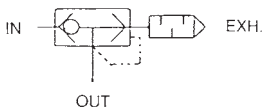
Quick Exhaust Valve with One-touch Fittings

RoHS **AQ□F Series**

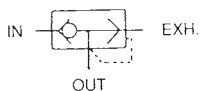
Space-saving: Rectilinear IN-OUT tubing connections

Quick Exhaust

Symbol



With silencer



With exhaust port fitting

With silencer



Applicable tubing O.D. [mm]	Model
Ø 4	AQ240F-04-00
Ø 6	AQ240F-06-00
Ø 6	AQ340F-06-00

With exhaust port fitting



Applicable tubing O.D. [mm]	Model
Ø 4	AQ240F-04-04
Ø 6	AQ240F-06-06
Ø 6	AQ340F-06-06

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

Bushing Type Check Valve with One-touch Fittings

RoHS **AKH/AKB Series**

Drop Prevention

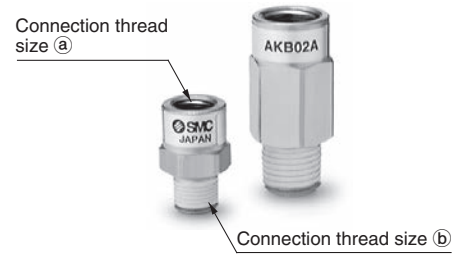
Straight type: **AKH**



Male connector type: **AKH**



Bushing type: **AKB**



Applicable tubing O.D. [mm]	Model
Ø 4	AKH04-00
Ø 6	AKH06-00
Ø 8	AKH08-00
Ø 10	AKH10-00
Ø 12	AKH12-00

Applicable tubing O.D. [mm]	Connection thread	Model	
Ø 4	M5 x 0.8	AKH04A-M5	AKH04B-M5
	R 1/8	AKH04A-01S	AKH04B-01S
Ø 6	M5 x 0.8	AKH06A-M5	AKH06B-M5
	R 1/8	AKH06A-01S	AKH06B-01S
	R 1/4	AKH06A-02S	AKH06B-02S
Ø 8	R 1/8	AKH08A-01S	AKH08B-01S
	R 1/4	AKH08A-02S	AKH08B-02S
	R 3/8	AKH08A-03S	AKH08B-03S
Ø 10	R 1/4	AKH10A-02S	AKH10B-02S
	R 3/8	AKH10A-03S	AKH10B-03S
	R 1/2	AKH10A-04S	AKH10B-04S
Ø 12	R 3/8	AKH12A-03S	AKH12B-03S
	R 1/2	AKH12A-04S	AKH12B-04S

Connection thread size		Model	
(a)	(b)		
Rc 1/8	R 1/8	AKB01A-01S	AKB01B-01S
Rc 1/4	R 1/4	AKB02A-02S	AKB02B-02S
Rc 3/8	R 3/8	AKB03A-03S	AKB03B-03S
Rc 1/2	R 1/2	AKB04A-04S	AKB04B-04S

Note) For dimensions and other details refer to specific catalogue of the series at www.smc.eu

Check Valve

Made to Order

INA-14-290



INA-14-□



XTO-674-□□



Model	Port size	Specifications					Fluid	Operating temperature range [°C]	Minimum operating pressure [MPa]	Application
		Body Brass	All stainless steel	Low cracking pressure 0.01 MPa	Main parts: Stainless steel	Rubber material				
INA-14-290	Rc 1/8	●			●	NBR	Air / Water	-5 to 60	0.02	
INA-14-47-□	□: Port size 02: Rc 1/4 03: Rc 3/8 04: Rc 1/2		●			NBR	Air / Water	-5 to 60	0.05	Anti-corrosion
INA-14-85-□			●			FKM	Air / Water	-5 to 80	0.05	Anti-corrosion
XTO-674-□		●				NBR	Air	-5 to 60	0.05	Basic type
XTO-674-□A		●			●	NBR	Air / Water	-5 to 60	0.05	For water
XTO-674-□E		●			●	NBR	Air	-5 to 60	0.01	For vacuum, oscillation measures
XTO-674-□H		●				FKM	Air	-5 to 80	0.05	For high temperature
XTO-674-□L		●				CR	Air	-30 to 60	0.05	For low temperature
XTO-674-□AE		●			●	NBR	Air / Water	-5 to 60	0.01	
XTO-674-□AH		●			●	FKM	Air / Water	-5 to 80	0.05	
XTO-674-□AL		●			●	CR	Air	-30 to 60	0.05	
XTO-674-□EH		●			●	FKM	Air	-5 to 80	0.01	
XTO-674-□EL		●			●	CR	Air	-30 to 60	0.01	
XTO-674-□AEH		●			●	FKM	Air/Water	-5 to 80	0.01	
XTO-674-□AEL		●			●	CR	Air	-30 to 60	0.01	

- AS
- AS-FS
- AS-1F
- AS-P
- AS-F
- AS-W2D
- AS-X737
- AS-2F
- AS-1F-3
- AS-DPP
- ASD
- Uni-AS
- Uni-AS-FS
- Uni-AS-1F
- AS-FE
- AS-FG
- AS-FSG
- AS-1FG
- ASD-FG
- ASG
- AS-FPQ/FPG
- AS-FM
- ASD-FM
- AS-F-D
- ASD-F-D
- AS-F-T
- ASD-F-T
- ASP
- ASV
- AS-R
- AS-Q
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