Speed Controller with One-touch Fitting

Elbow Type Series AS



Model

	Port size		Seal method	Applicable tubing O.D.													
Model				Metric size								Inch size					
				2 Note 2)	3.2	4	6	8	10	12	16	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"
AS12⊡1F-M5	M5	x 0.8	Gasket seal	•	•	•	•					•	•	•			
AS12□1F-U10/32	10-32	2 UNF	Gasket seal	•	•	•	•					•	•	•			
AS22□1F-□01		1/8	- Sealant Note 1)		•	•	•	•	•			•	•	•	•		
AS22□1F-□02	R NPT	1/4			•	•	•	•	•			•	•	•	•	•	
AS32□1F-□03		3/8					•	•	•	•				•	•	•	
AS42□1F-□04		1/2							•	•	•					•	•

Note 1) Non-sealant type can be selected as a standard option.

Note 2) Only polyurethane tubing is applicable for ø2.

Flow Direction Symbols on Body

	Meter-out type	Meter-in type
Indication symbol	*	*

I Be sure to read before handling. I I Refer to back cover for Safety I

and I Precautions for SMC Products"

I Instructions

I (M-E03-3) for Flow

I Equipment Precautions.

"Handling I

Control I

Specifications

Fluid	Air
Proof pressure	218 psi (1.5 MPa)
Max. operating pressure	145 psi (1 MPa)
Min. operating pressure	14.5 psi (0.1 MPa)
Ambient and fluid temperature	23 to 140°F (–5 to 60°C) (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane Note)

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to Best Pneumatics No. 6 for details.)

Flow Rate and Sonic Conductance

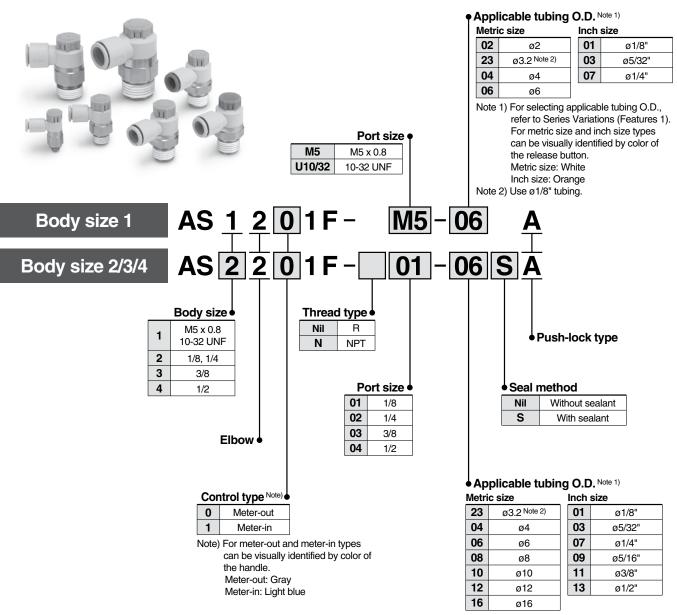
Model		AS12□1F-M5		AS22□1F-01			AS22□1F-02			AS	32□1F	AS42□1F-04		
Tubing O.D.	Metric size	ø2	ø3.2 ø4 ø6	ø3.2	ø4	ø6 ø8 ø10	ø4	ø6	ø8 ø10	ø6	ø8	ø10 ø12	ø10	ø12 ø16
	Inch size	_	Ø1/8" Ø1/4" Ø5/32"	ø1/8"	ø5/32"	ø1/4" ø5/16"	ø5/32"	_	ø1/4" ø5/16" ø3/8"	ø1/4"	ø5/16"	ø3/8"	ø3/8"	ø1/2"
C values: Sonic conductance dm³/(s·bar)	Free flow	0.2	0.3	0.4	0.6	0.6	1.0	1.3	1.5	1.6	1.7	2.5	4.4	4.8
	Controlled flow	0.2	0.3	0.4	0.7	0.8	0.9	1.3		2.1	2.4	3.3	4.4	4.9
b values: Critical pressure ratio	Free flow	0.3		0.2		0.3	0.3	0.4		0.4		0.3	0.3	
	Controlled flow	0.2	0.4	0	.2	0.3		0.3		0.3			0.3	

Note 1) 10-32 UNF has the same specification as M5.

Note 2) C values and b values for controlled flow direction are with the needle fully open, the values for free flow direction are with the needle fully closed.



How to Order



Note 1) For selecting applicable tubing O.D., refer to Series Variations (Features 1). Note 2) Use Ø1/8" tubing.