Speed Controller with One-touch Fittings Series AS

In-line Style



Minimizes installation time and cost

Reduce the mounting height and enables compact machinery design. Effective area is larger than the former model.

Application to inch size tubing

- Metric size (Release bushing: White color) ø3.2, ø4, ø6, ø8, ø10, ø12
- Inch size (Release bushing: Orange color) $\emptyset^{1}/8$ ", $\emptyset^{5}/32$ ", $\emptyset^{3}/16$ ", $\emptyset^{1}/4$ ", $\emptyset^{5}/16$ ", $\emptyset^{3}/8$ ", $\emptyset^{1}/2$ "

Operating pressure 1MPa max.

Applicable tube material

Nylon, Soft nylon and Polyurethane tubing

Retainer prevents accidental loss of needle

Optional: Hexagonal lock nut, Nickel plated option

Number of needle rotations has been increased (8 to 10 turns)

The increased number of needle rotations (8 to 10 turns) permits easy control at low speed. In-line style

Model

	Applicable tube O.D.										Applicable			
Model	Metric size					Inch size					cylinder bore size			
	3.2	4	6	8	10	12	1/8"	5/32	³ ⁄16̈	1/4"	⁵ /16	3/8"	1/2"	(mm)
AS1001F	•	•	•				•	•						6, 10, 16, 20
AS2001F		•	•					•	•	•				20, 25, 32
AS2051F			•	•					•	•	•			20, 25, 32, 40
AS3001F			•	•	•	•				•	•	•		40, 50, 63
AS4001F					•	•						•	•	63, 80, 100

Note) : Nickel plated model is standard

Specifications

Proof pressure	1.5MPa
Max. operating pressure	1MPa
Min. operating pressure	0.1MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Number of needle rotations	10 turns (8 turns ⁽¹⁾)
Applicable tubes ⁽²⁾	Nylon, Soft nylon, Polyurethane
Option	Hexagonal lock nut, Nickel plated ⁽³⁾

Note 1) AS1001F

Note 2) Pay attention to the maximum operating pressure when soft nylon or polyurethane is used.

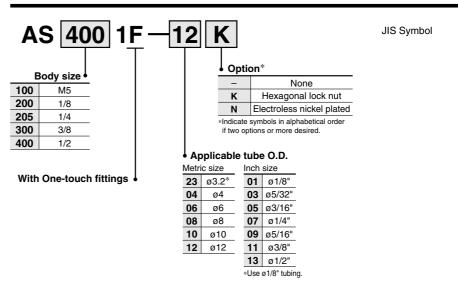
(Refer to p. 7-146 and 7-147 in "Best Pneumatics for further information.)
Note 3) Brass parts are all electroless nickel plated.

Air Flow/Effective Area

Model		AS1001F	AS2001F		AS	2051F	AS3001F			AS4001F	
Applicable	Metric size	ø3.2, ø4, ø6	ø4	ø6	ø6	ø8	ø6	ø8	ø10, ø12	ø10	ø12
tube O.D.	Inch size	ø1/8", ø5/32"	ø5/32"	ø3/16", ø1/4"	ø3/16"	ø1/4, ø5/16	ø1/4	ø5/16	ø3/8"	ø3/8"	ø1/2"
Controlled	Air flow (d/min(ANR))	100	130	230	290	460	420	660	920	1050	1390
(Free) Flow	Effective area (mm²)	1.5	2	3.5	4.5	7	6.5	10	14	16	21

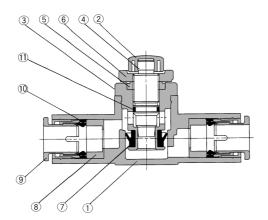
Note) Supply pressure: 0.5MPa, Temperature: 20°C.

How to Order



With One-touch Fittings: In-line Style Series ${m AS}$

Construction

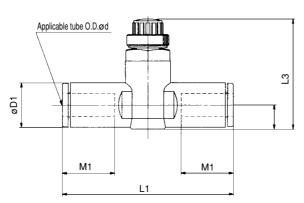


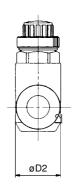
Component Parts

No.	Description	Material	Note
1	Body A	PBT	
2	Handle	PBT	
3	Body B	Brass	Electroless nickel plated
4	Needle	Brass	Electroless nickel plated
(5)	Needle guide	Brass	Electroless nickel plated
6	Lock nut	Brass ⁽¹⁾	Electroless nickel plated
7	U-packing	NBR	
8	Spacer	Brass ⁽²⁾	
9	Cassette	POM, Stainless steel	
10	Packing	NBR	
11)	O ring	NBR	

Note 1) AS2 □□1F: Steel Note 2) ø3.2, ø4, ø6, ø1/8", ø5/32" (Except for AS3001F-006): POM







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	·ι		v

Tube	D1	D0	14		L3			Weight
d	יט	U2	L'	LZ	MAX.	MIN.	IVI I	(g)
3.2	8.4		38.0	4.5	23.5	20.7	12.7	6
4	9.3	10	39.2	5.2	24.2	21.4	12.7	7
6	11.6		40.7	6.2	25.2	22.4	13.5	8
4	9.3	11.8	40.7	5.2	32.6	27.6	12.7	12
6	11.6		44.8	6.3	33.7	28.7	13.5	13
6	12.8	14.8	53.2	6.7	35.2	30.2	17	26
8	15.2		59.8	8.1	36.5	31.5	18	31
6	12.8		59	7.4	38.3	33.3	17	18
8	15.2	100	64.4	8.2	39.1	34.1	18	21
10	18.5	19.6	71.6	9.8	40.6	35.6	21	32
12	20.9		76	11	41.8	36.8	22	33
10	18.5	26.5	92	11 2	51.1	43.6	21	36
12	20.9	20.5) 82	. 11.3	52.1	44.6	22	40
	0.D. d 3.2 4 6 4 6 8 6 8 10 12	O.D. d 3.2 8.4 4 9.3 6 11.6 4 9.3 6 11.6 6 12.8 8 15.2 6 12.8 8 15.2 10 18.5 12 20.9 10 18.5	O.D. d 3.2 8.4 4 9.3 6 11.6 4 9.3 6 11.6 6 12.8 8 15.2 6 12.8 8 15.2 10 18.5 12 20.9 10 18.5 26.5	O.D. d D1 d D2 d L1 d 3.2 8.4 10 39.2 38.0 40.7 4 9.3 d 40.7 40.7 44.7 44.8 6 11.6 11.6 11.8 20.2 59.8 59.8 8 15.2 11.8 20.9 11.8 20.9 20.9 59.8 64.4 71.6 76.2 10 18.5 20.9 20.9 20.9 20.9 20.9 20.9 76 10 18.5 20.9 20.9 20.9 20.9 20.9 20.9 20.9 20.9	O.D. d D1 d D2 d L1 L2 3.2 8.4 10 39.2 5.2 4 9.3 10 40.7 6.2 4 9.3 11.8 40.7 5.2 6 11.6 44.8 6.3 6 12.8 14.8 59.2 6.7 8 15.2 14.8 59.8 8.1 6 12.8 19.8 64.4 8.2 71.6 9.8 76 11 10 18.5 26.5 82 11.3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Inch

Tube	D1	D0			L	.3	B.8-4	Weight
(d.D.	וט	D2	LI	L2	MAX.	MIN.	IVII	(g)
1/8"	8.4	10	38	4.5	23.5	20.7	10.7	6
5/32"	9.3	10	39.2	5.2	24.2	21.4	12./	7
5/32"	9.3	11.8	40.7	5.2	32.6	27.6	12.7	12
3/16"	11.4		50	6.2	33.6	28.6	16.5	18
1/4"	13.2		52.2	7.1	34.5	29.5	17	21
3/16"	11.4		52.2	6.2	34.6	29.6	16.5	24
1/4"	13.2	14.8	54.4	7.1	35.5	30.5	17	26
5/16"	15.2		59.8	8.1	36.5	31.5	18	31
1/4"	13.2		59	7.4	38.3	33.3	17	42
5/16"	15.2	19.8	64.4	8.2	39.1	34.1	18	46
3/8"	17.9		70.8	9.5	40.3	35.3	21	53
3/8"	17.9	26.5	76.9	10.3	51	43.5	21	97
1/2"	21.7	20.5	83.1	11.6	52.4	44.9	22	106
	O.D. d 1/8" 5/32" 5/32" 3/16" 1/4" 3/16" 1/4" 5/16" 1/4" 5/16" 3/8" 3/8"	O.D. d d 1/8" 8.4 5/32" 9.3 5/32" 9.3 3/16" 11.4 1/4" 13.2 3/16" 15.2 1/4" 13.2 5/16" 15.2 1/4" 13.2 5/16" 15.2 3/8" 17.9 3/8" 17.9	O.D. d D1 d D2 d 1/8" 8.4 10 5/32" 9.3 10 3/16" 11.4 11.8 1/4" 13.2 14.8 5/16" 15.2 14.8 5/16" 15.2 19.8 3/8" 17.9 26.5	O.D. d D1 b2 L1 1/8" 8.4 10 38 5/32" 9.3 40.7 3/16" 11.4 11.8 50 1/4" 13.2 52.2 3/16" 11.4 52.2 3/16" 11.4 52.2 1/4" 13.2 52.2 1/4" 13.2 59.8 1/4" 13.2 59 5/16" 15.2 19.8 3/8" 17.9 76.9	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	O.D. d d D1 b2 d L1 b2 38 L2 max. min. min. min. min. min. min. min. min

In-line Style

iii-iiile Style											
		Detail No.									
File	Model	Tube O.D.									
		3.2	4	6	8	10	12				
SAS01F1N	AS1001F-□	#1	#2	#3	_	_	_				
	AS2001F-□	_	#4	#5	_	_	_				
	AS2051F-□	_	_	#6	#7	_	_				
	AS3001F-□	_	_	#8	#9	#10	#11				
	AS4001F-□	_	_	_	_	#12	#13				

