

SPEED CONTROLLER WITH ONE TOUCH FITTINGS: IN-LINE TYPE SERIES AS1001F, 2001F, 2051F, 3001F, 4001F

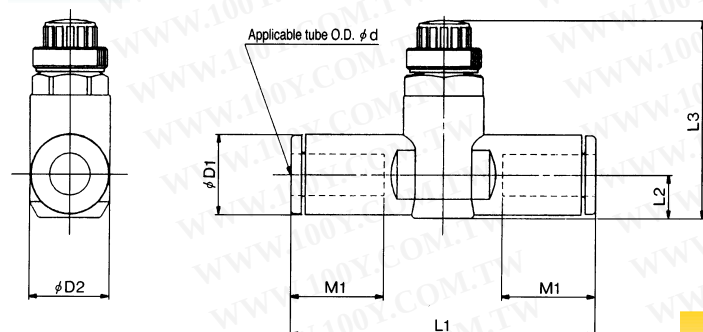
- ✓ Minimises installation time and cost
- ✓ Accepts nylon and polyurethane tubing
- ✓ Wide variety of sizes
- ✓ Speed may accurately be controlled even at low velocity
- ✓ Constant speed easily set
- ✓ Retainer prevents accidental loss of needle
- ✓ Optional holder gives flexibility of mounting

TECHNICAL SPECIFICATIONS

Proof pressure	1.5MPa (15.3kgf/cm ²)
Operating pressure range	0.1~1.0MPa
Ambient and fluid temperature	0~60°C
Number of needle rotations	10 turns (8 turns)*

*AS1001F type

DIMENSIONS AS1000-4000



Model	Applicable tube O.D. (d)	D1	D2	L1	L2	L3		M1
						MAX	MIN	
AS1001F	4	9.3	10	39.2	5.2	24.2	21.4	12.8
	6	11.6		40.7	6.2	25.2	22.4	13.7
AS2001F	4	9.3	11.8	40.7	5.2	32.6	27.6	12
	6	11.6		44	6.3	33.7	28.7	13.7
AS2051F	6	12	14.8	53.2	6.7	35.2	30.2	16.8
	8	15.2		59.8	8.1	36.5	31.5	18
AS3001F	6	12		59	7.4	38.3	33.3	16.8
	8	15.2	19.8	64.4	8.2	39.1	34.1	18
	10	18.5		71.6	9.8	40.6	35.6	21
	12	20.9		76	11	41.8	36.8	22
AS4001F	10	18.5	26.5	82.1	11.3	51.1	43.6	21
	12	20.9				52.1	44.6	22

SPECIAL OPTION

Black body with blue bush (same dimensions) order with -X35 suffix. This also applies for black TMH mounting brackets.

SYMBOLS



HOW TO ORDER AS1000-4000

AS 1F —

BODY SIZE
 100 ... M5 (04, 06)
 200 ... 1/8" (04, 06)
 205 ... 1/8" (06, 08)
 300 ... 1/4" (06, 08, 10, 12)
 400 ... 1/2" (10, 12)

WITH ONE-TOUCH FITTINGS

APPLICABLE TUBE O.D.
 04 ... Ø4
 06 ... Ø6
 08 ... Ø8
 10 ... Ø10
 12 ... Ø12

STOCKED PRODUCTS
 FOR A LIST OF STOCKED PRODUCTS, PLEASE SEE THE CURRENT SMC PRICE LIST

ACCESSORIES

MOUNTING BRACKET - NOW ALSO WHITE

Tube Size Body size	Applicable tube					
	ø3.2	ø4	ø6	ø8	ø10	ø12
AS1001F	TMH-23J	TMH-04J	TMH-06J			
AS2001F			TMH-07			
AS2051F				TMH-08		
AS3001F					TMH-10	TMH-12
AS4001F						

Air Flow/Effective Area

Model		AS1001F		AS2001F		AS2051F		AS3001F		AS4001F	
Applicable tube O.D.	Metric size	ø4, ø6	ø4	ø6	ø6	ø8	ø6	ø8	ø10, ø12	ø10	ø12
Controlled (Free) flow	Air flow t/min(ANR)	100	130	230	290	460	420	660	920	1050	1390
	Effective area (mm ²)	1.5	2	3.5	4.5	7	6.5	10	14	16	21

(Note) Supply pressure: 0.5MPa (5.1kgf/cm²), Temperature: 20°C



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DETAILS ON THIS
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E201-G & E505



SPEED CONTROLLER WITH ONE TOUCH
FITTINGS TO M5, R(PT) AND UNI TYPE
MALE THREADS

SERIES AS 1 1F
2 1F
3 1F
4 1F

- ✓ Minimises installation time and cost
- ✓ Accepts nylon and polyurethane tubing
- ✓ Wide variety of sizes
- ✓ Body swivels 360°
- ✓ Accurate speed control even at low velocity
- ✓ Constant speed easily set
- ✓ Retainer prevents accidental loss of control needle
- ✓ Available as elbow or universal body types
- ✓ With meter-in or meter-out control as standard options
- ✓ Optional NPT threads and inch tubing versions with meter-in or meter-out control as standard options– Ask SMC Regional Offices for details



TECHNICAL
SPECIFICATIONS

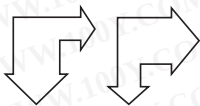
Fluid	Air
Max. operating pressure	1MPa{10.2kgf/cm²}
Min. operating pressure	0.1MPa{1kgf/cm²}
Proof pressure	1.5MPa{15.3kgf/cm²}
Ambient and fluid temperature	0 ~ 60°C
Number of needle revolutions	10 turns (M5 size: 8 turns)
Applicable tube material	Nylon, soft nylon, polyurethane
Mounting thread	M5, R(PT), Uni thread
Option	Hexagonal lock nut, nickel plated type ^{Note1} , sealant on R(PT) ^{Note2}

Note 1: Brass parts are all electroless nickel plated. M5 size are nickel plated as standard.
Note 2: M5 and Unithread have gasket seal as standard.

SYMBOLS



Meter-out Meter-in



Indication on product

How To
ORDER
SEE NEXT PAGE

DIMENSIONS
SEE NEXT PAGE

AIR FLOW
EFFECTIVE ORIFICE

Model	AS12 1F AS13 1F	AS22 1F-01 AS23 1F-01	AS22 1F-02 AS23 1F-02	AS32 1F AS33 1F	AS42 1F AS43 1F
Tube OD (mm)	4, 6	4 6, 8, 10	4 6 8, 10	6 8 10, 12	10 12
Thread type	M5	R(PT) or unithread			
Controlled (Free) Air Flow ℓ/min (ANR)	100	180 230	260 390 460	660 790 920	1580 1710
Flow Effective orifice (mm²)	1.5	2.7 3.5	4 6 7	10 12 14	24 26

Supply pressure=0.5MPa{5.1kgf/cm²} Temperature 20°C
■: Control Method (0: Meter-out; 1: Meter-in)

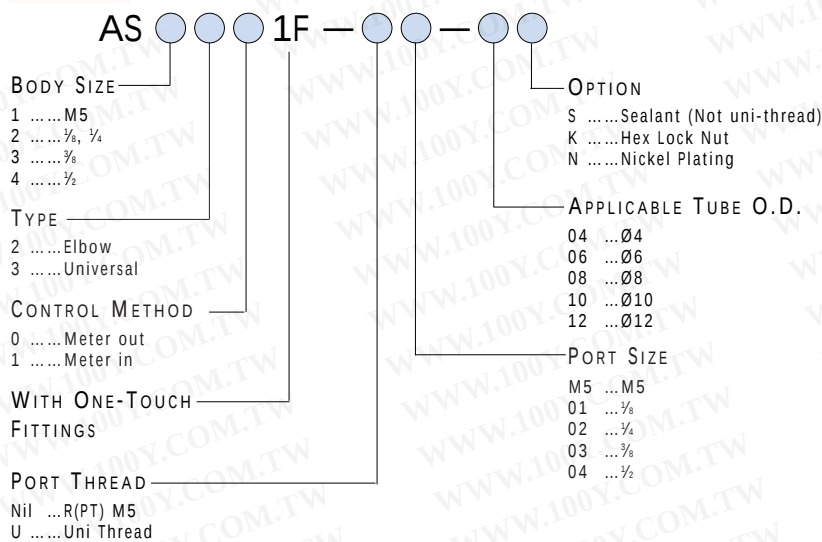
MODEL/RANGE

Elbow type	Universal Type	Port Size (Thread)	Applicable tube OD					Applicable cylinder bore size (mm)
AS12 1F	AS13 1F	M5 x 0.8	4	6	8	10	12	6, 10, 15, 20
AS22 1F-01	AS23 1F-01	1/8 R(PT)	✓	✓	✓	✓		20, 25, 32
AS22 1F-02	AS23 1F-02	1/4 R(PT)	✓	✓	✓	✓		20, 25, 32, 40
AS32 1F-02	AS33 1F-02	1/4 R(PT)		✓	✓	✓	✓	40, 50, 63
AS32 1F-03	AS33 1F-03	3/8 R(PT)		✓	✓	✓	✓	40, 50, 63
AS42 1F-04	AS43 1F-04	1/2 R(PT)				✓	✓	63, 80, 100
AS22 1F-U01	AS23 1F-U01	1/8 Uni-	✓	✓	✓	✓		20, 25, 32
AS22 1F-U02	AS23 1F-U02	1/4 Uni-	✓	✓	✓			20, 25, 32, 40
AS32 1F-U03	AS33 1F-U03	3/8 Uni-		✓	✓	✓	✓	40, 50, 63
AS42 1F-U04	AS43 1F-U04	1/2 Uni-				✓	✓	63, 80, 100



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How To Order



Note:
Elbow type models are also available with Push-in system for connection to other one-touch fittings. Ask your SMC Regional Office about series AS1000P, 2000P, 3000P, 4000P.

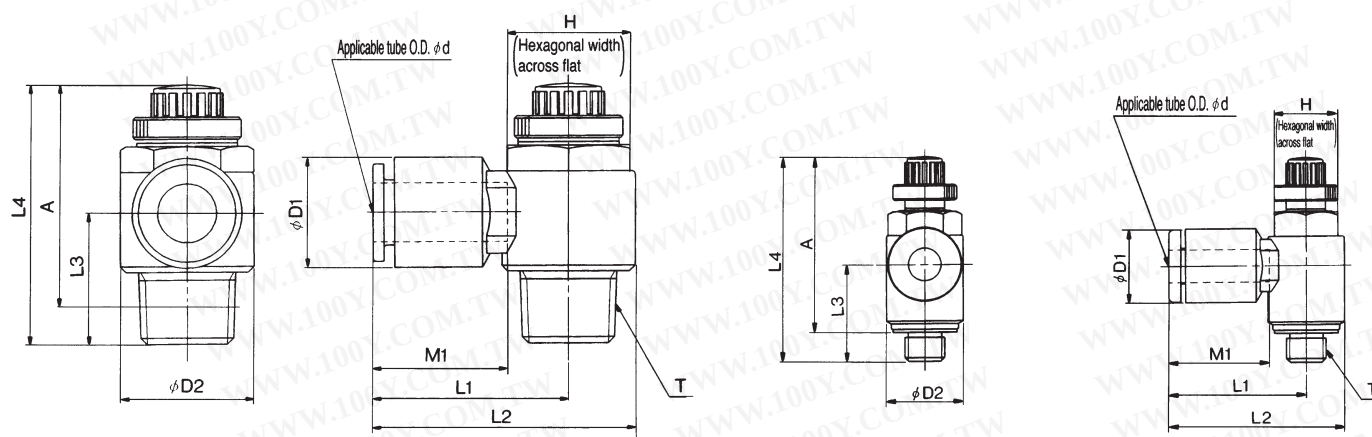
SPECIAL
OPTION

Black body/Blue bush (Same dimensions)
order as -X35 suffix.

DIMENSIONS
ELBOW TYPE

R(P T)

M5



Model	Applicable Tube Od d	T	H	D1	D2	L1	L2	L3	L4		A		M1
									Max	Min	Max	Min	
AS12■1F-M5-04	4	M5x0.8	8	9.3	9.6	17.3	22.1	12.3	28.6	25.8	25.0	22.2	12.7
AS12■1F-M5-06	6	M5x0.8	8	11.6	9.6	10.1	22.9	11.7	28.6	25.8	25.0	22.2	13.5
*AS22■1F-01-04	4	1/8	12	9.3	14.2	20.4	27.5	14.3	36.1	31.1	32.1	27.1	12.7
AS22■1F-01-06	6	1/8	12	11.6	14.2	20.4	27.5	14.3	36.1	31.1	32.1	27.1	13.5
AS22■1F-01-08	8	1/8	12	15.2	14.2	25.3	34.2	14.3	36.1	31.1	32.1 (30.5)	27.1 (25.5)	18.5
AS22■1F-01-10	10	1/8	12	18.5	14.2	33.1	40.2	15.0	36.1	31.1	32.1 (30.5)	27.1 (25.5)	21.0
*AS22■1F-02-04	4	1/4	17	10.4	18.5	25.2	34.4	18.2	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	15
AS22■1F-02-06	6	1/4	17	12.8	18.5	25.2	34.4	18.2	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	16.8
AS22■1F-02-08	8	1/4	17	15.2	18.5	27.2	36.4	18.2	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	18.5
AS22■1F-02-10	10	1/4	17	18.5	18.5	33.9	43.2	20.0	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	21.0
*AS32■1F-03-06	6	3/8	19	12.8	23.0	27.8	39.3	20.9	46.5 (45)	41.5 (40)	40 (37.6)	35.0 (32.6)	16.8
AS32■1F-03-08	8	3/8	19	15.2	23.0	29.5	41	20.9	46.5 (45)	41.5 (40)	40 (37.6)	35.0 (32.6)	18.5
AS32■1F-03-10	10	3/8	19	18.5	23.0	31.8	43.3	20.9	46.5 (45)	41.5 (40)	40 (37.6)	35.0 (32.6)	21.0
AS32■1F-03-12	12	3/8	19	20.9	23.0	32.8	44.3	20.9	46.5 (45)	41.5 (40)	40 (37.6)	35.0 (32.6)	22.0
*AS42■1F-04-10	10	1/2	24	18.5	28.6	33.6	47.9	25.4	57.6 (54.6)	50.1 (47.1)	49.6 (44.5)	42.1 (37.0)	21.0
AS42■1F-04-12	12	1/2	24	20.9	28.6	34.6	48.9	25.4	57.6 (54.6)	50.1 (47.1)	49.6 (44.5)	42.1 (37.0)	22.0

* Standard version and unithread version dimensions are the same except () which are unithread dimensions only



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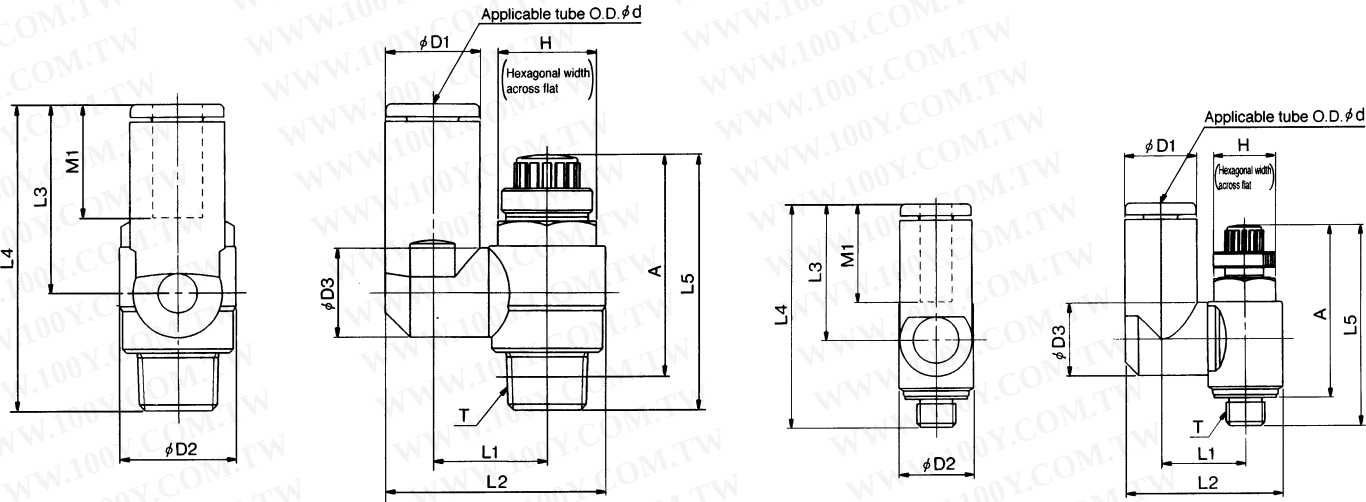
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DIMENSIONS
UNIVERSAL TYPE

R(PT)

M5



Model	Applicable Tube OD ϕd	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A ^{mm} 1		M1
											Max	Min	Max	Min	
AS13 ■1F-M5-04	4	M5x0.8	8	9.3	9.6	9.3	10.8	20.3	17.5	20.7	28.6	25.8	25	22.2	12.9
AS13 ■1F-M5-06	6	M5x0.8	8	11.6	9.6	9.3	10.8	21.4	20.6	31.8	28.6	25.8	25	22.2	12.9
*AS23 ■1F-01-04	4	R(PT) 1/8	12	9.3	14.2	9.3	13.1	24.9	17.5	31.8	36.1	31.1	32.1 (30.5)	27.1 (25.5)	12.9
AS23 ■1F-01-06	6	R(PT) 1/8	12	11.6	14.2	10.9	14	26.9	22.9	37.2	36.1	31.1	32.1 (30.5)	27.1 (25.5)	13.7
AS23 ■1F-01-08	8	R(PT) 1/8	12	15.2	14.2	12.9	16.2	30.9	20.2	41.7	36.1	31.1	32.1 (30.5)	27.1 (25.5)	10.7
*AS23 ■1F-02-04	4	R(PT) 1/4	17	10.4	18.5	10.9	16.2	30.6	21.9	40.1	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	15.8
AS23 ■1F-02-06	6	R(PT) 1/4	17	12.8	18.5	12.9	18.4	34	25.2	42.6	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	16
AS23 ■1F-02-08	8	R(PT) 1/4	17	15.2	18.5	12.9	18.3	35.2	28.2	45.6	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	18.7
AS23 ■1F-02-10	10	R(PT) 1/4	17	18.5	18.5	12.9	20.2	38.7	31	48.4	40.4 (39.4)	35.4 (34.4)	34.4 (32)	29.4 (26.6)	20.8
*AS33 ■1F-03-6	6	R(PT) 3/8	19	12.8	23	12.9	20.6	38.5	25.2	47	48.8 (45)	43.8 (40)	42.8 (37.6)	37.8 (32.6)	21.8
AS33 ■1F-03-8	8	R(PT) 3/8	19	15.2	23	12.9	20.6	39.7	28.2	50	48.8 (45)	43.8 (40)	42.8 (37.6)	37.8 (32.6)	18.7
AS33 ■1F-03-10	10	R(PT) 3/8	19	18.5	23	16.2	23	43.7	32.6	54.4	48.8 (45)	43.8 (40)	42.8 (37.6)	37.8 (32.6)	20.8
AS33 ■1F-03-12	12	R(PT) 3/8	19	20.9	23	16.2	23	44.9	34.4	56.2	48.8 (45)	43.8 (40)	42.8 (37.6)	37.8 (32.6)	21.8
*AS43 ■1F-04-10	10	R(PT) 3/8	24	18.5	28.6	16.2	25.8	49.4	32.6	58	57.6 (54.6)	50.1 (47.1)	49.4 (44.5)	41.9 (37)	20
AS43 ■1F-04-12	12	R(PT) 3/8	24	21.7	28.6	19.4	26.8	52	36.3	61.7	57.6 (54.6)	50.1 (47.1)	49.4 (44.5)	41.9 (37)	21

Note 1): Dimensions measured after M5 and (R(PT) are screwed in.
* Standard version and unithread version dimensions are the same except () which are unithread dimensions only



SPEED CONTROLLER WITH ONE TOUCH FITTINGS; STAINLESS STEEL TYPE SERIES AS12 1FG 22 1FG 32 1FG 42 1FG

- ✓ Stainless steel elements (SUS 303). Suitable for copper free specification and water/salt water washdown of food processing machines
- ✓ White resin body/release bush
- ✓ Optional pre-coated thread
- ✓ Maximum operating pressure 1.0MPa
- ✓ Accepts nylon, soft nylon and polyurethane tubing
- ✓ Retainer prevents accidental needle loss
- ✓ Constant easy speed setting with 10 turns of needle rotation



How To ORDER

AS 2 1F G — — —

BODY SIZE

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

TYPE

- 2 Elbow

CONTROL METHOD

- 0 Meter out
- 1 Meter in

WITH ONE TOUCH FITTING

STAINLESS STEEL TYPE (SUS303)

PORT SIZE

- M5 M5x0.8
- 01 R(PT)1/8
- 02 R(PT)1/4
- 03 R(PT)3/8
- 04 R(PT)1/2

APPLICABLE TUBE O.D

- 04 Ø4
- 06 Ø6
- 08 Ø8
- 10 Ø10
- 12 Ø12

OPTION

- Nil None
- S with Sealant

TECHNICAL SPECIFICATIONS

Proof pressure	1.5MPa{15.3kgf/cm ² }
Max. operating pressure	1MPa{10.2kgf/cm ² }
Min. operating pressure	0.1MPa{1kgf/cm ² }
Ambient and fluid temperature	0 ~ 60°C
Number of needle revolutions	10 turns (8 turns ^{Note1})
Applicable tube material	Nylon, soft nylon, polyurethane
Option	With Sealant ^{Note2}

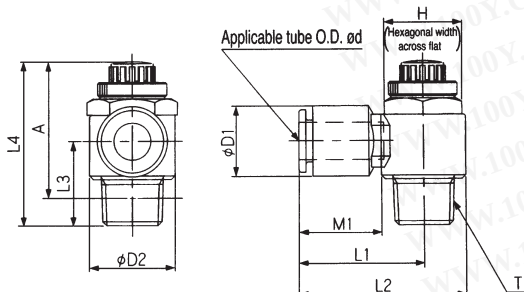
Note 1: Applicable tube to AS12*FG
Note 2: Not available for M5 threads

TECHNICAL SPECIFICATIONS

Elbow type	Port Size	Free Control Flow(Nl/min)/Effective Orifice(mm ²) by applicable tube					Applicable Tube
		4	6	8	10	12	
AS12*1FG-M5	M5x0.8	100/1.5	100/1.5				6, 10, 16, 20
AS22*1FG-01	R(PT)1/8	180/2.7	230/3.5	230/3.5	230/3.5		20, 25, 32
AS22*1FG-02	R(PT)1/4	260/4	390/6	460/7	460/7		20, 25, 32, 40
AS32*1FG-04	R(PT)3/8		660/10	790/12	920/14		40, 50, 63
AS42*1FG-04	R(PT)1/2				1580/24	1710/26	63, 80, 100

Note: Supply Pressure 0.5MPa Temperature 20°C

DIMENSIONS



Model	Applicable Tube OD d	T	H	D1	D2	L1	L2	L3	L4		A ^{Note1}		M1
									Max	Min	Max	Min	
AS12 ■ 1FG-M5-04	4	M5x0.8	8	9.3	9.6	17.3	22.1	12.3	28.6	25.8	25	22.2	12.7
AS12 ■ 1FG-M5-06	6	M5x0.8	8	11.6	9.6	18.1	22.9	11.7	28.6	25.8	25	22.2	13.5
AS22 ■ 1FG-01-04	4	R(PT) 1/8	12	9.3	14.2	20.4	27.5	14.3	36.1	31.1	32.1	27.1	12.7
AS22 ■ 1FG-01-06	6	R(PT) 1/8	12	11.6	14.2	20.4	27.5	14.3	36.1	31.1	32.1	27.1	13.5
AS22 ■ 1FG-01-08	8	R(PT) 1/8	12	15.2	14.2	25.3	32.4	14.3	36.1	31.1	32.1	27.1	18.5
AS22 ■ 1FG-02-10	10	R(PT) 1/8	12	18.5	14.2	33.1	40.2	15	36.1	31.1	32.1	27.1	21
AS22 ■ 1FG-02-04	4	R(PT) 1/4	17	10.4	18.5	25.2	34.4	18.2	40.4	35.4	34.4	29.4	15
AS22 ■ 1FG-02-06	6	R(PT) 1/4	17	12.8	18.5	25.2	34.4	18.2	40.4	35.4	34.4	29.4	16.8
AS22 ■ 1FG-02-08	8	R(PT) 1/4	17	15.2	18.5	27.2	36.4	18.2	40.4	35.4	34.4	29.4	18.5
AS22 ■ 1FG-02-10	10	R(PT) 1/4	17	18.5	18.5	33.9	43.2	20	40.4	35.4	34.4	29.4	21
AS32 ■ 1FG-03-6	6	R(PT) 3/8	19	12.8	23	27.8	39.3	20.9	46.5	41.5	40	35	16.8
AS32 ■ 1FG-03-8	8	R(PT) 3/8	19	15.2	23	29.5	41	20.9	46.5	41.5	40	35	18.5
AS32 ■ 1FG-03-10	10	R(PT) 3/8	19	18.5	23	31.8	43.3	20.9	46.5	41.5	40	35	21
AS32 ■ 1FG-03-12	12	R(PT) 3/8	19	20.9	23	32.8	44.3	20.9	46.5	41.5	40	35	22
AS42 ■ 1FG-04-10	10	R(PT) 1/2	24	18.5	28.6	33.6	47.9	25.4	57.6	50.1	49.6	42.1	21
AS42 ■ 1FG-04-12	12	R(PT) 1/2	24	20.9	28.6	34.6	48.9	25.4	57.6	50.1	49.6	42.1	22

Note 1: Dimensions measured when thread has been screwed in.



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FLAME RESISTANT SPEED CONTROLLER WITH ONE TOUCH FITTINGS AND METAL BODY

SERIES AS12 1-F
22 1-F
32 1-F
42 1-F



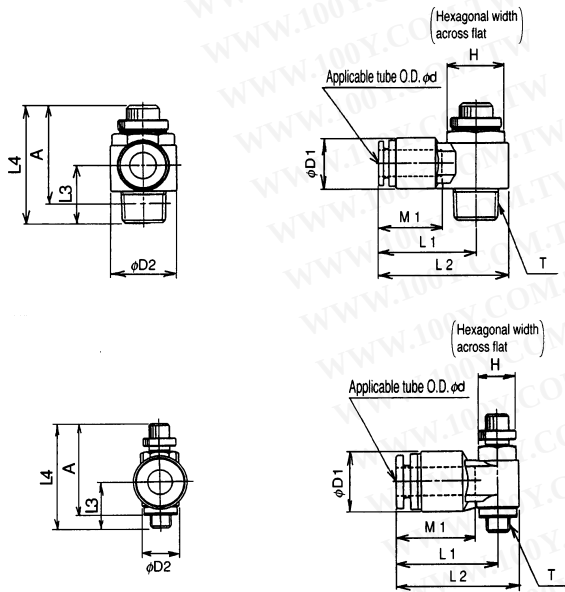
- ✓ Metal body and flame resistant resin one-touch fitting cassette (to UL94 standard V-0)
- ✓ Ideal for heavy duty application
- ✓ Can be used in conjunction with other flame resistant fittings and tubing (See section 4 of this catalogue).

TECHNICAL SPECIFICATIONS

Proof pressure	1.5MPa{15.3kgf/cm ² }
Max. operating pressure	1MPa{10.2kgf/cm ² }
Min. operating pressure	0.1MPa{1kgf/cm ² }
Ambient and fluid temperature	0 ~ 60°C
Number of needle revolutions	10 turns (8 turns ^{Note1})
Applicable tube material	Nylon, soft nylon, polyurethane
Option	W/seal, Hexagon lock nut, Nickel plating type

Model	AS12 1-M5-F*	AS22 1-01-F*	AS22 1-02-F*	AS32 1-03-F*	AS42 1-04-F*
Applicable Tube OD (mm)	Ø4, Ø6	Ø4, Ø6	Ø6 Ø8	Ø8 Ø10	Ø10 Ø12
Controlled (Free) Air Flow l/min (ANR)	100	230	390 460	790 920	1580 1710
Flow Effective orifice (mm ²)	1.5	3.5	6 7	12 14	24 26
ID of applicable cylinders (mm)	6, 10, 16, 20	20, 25, 32	20, 25, 32, 40	40, 50, 63	63, 80, 100

DIMENSIONS



HOW TO ORDER

AS 2 1 - F

BODY SIZE

1M5 Standard
201, 02 Standard
303 standard
404 Standard

TYPE

2Elbow

CONTROL METHOD

0Meter out
1Meter in

THREAD SIZE

M5 ...M5x0.8
01 ...R(PT)1/8
02 ...R(PT)1/4
03 ...R(PT)3/8
04 ...R(PT)1/2

BUILT-IN ONE TOUCH FITTING

TUBE PORT SIZE

04 ...Ø4
06 ...Ø6
08 ...Ø8
10 ...Ø10
12 ...Ø12

OPTION

Swith sealant
KHexagon lock nut
NNickel plating type
The option sequence must be SKN

Model	Applicable Tube OD d	T	H	D1	D2	L1	L2	L3	L4	A ^{Note1}	Max	Min	M1	Mass
AS12 1-M5-F04	4	M5x0.8	8	13	9	21	25.5	11.2	28.8	25.5	25	22.2	16	12.7
AS12 1-M5-F06	6	M5x0.8	8	13	9	21.5	26	11.2	28.8	25.5	25	22.2	17	12.5
AS22 1-01-F06S	6	R(PT) 1/8	12	15.5	14.6	26.6	33.9	14.7	36.4	31.4	32.4	27.4	17	33.7
AS22 1-01-F08S	8	R(PT) 1/8	12	15.5	14.6	26.6	33.9	14.7	36.4	31.4	32.4	27.4	18.5	30.7
AS22 1-02-F06S	6	R(PT) 1/4	17	15.5	19.5	28.7	38.5	17.7	40.8	35.8	34.8	29.8	17	56.3
AS22 1-02-F08S	8	R(PT) 1/4	17	15.5	19.5	28.7	38.5	17.7	40.8	35.8	34.8	29.8	18.5	52.1
AS32 1-03-F08S	8	R(PT) 3/8	19	18.2	24.3	32.7	44.9	20.1	46.9	41.9	40.6	35.6	18.5	92.9
AS32 1-03-F10S	10	R(PT) 3/8	19	18.2	24.3	33.3	45.5	20.1	46.9	41.9	40.6	35.6	21	87.6
AS42 1-04-F10S	10	R(PT) 1/2	24	22.3	28.5	36.1	50.4	25.5	55.6	50.6	47.4	42.4	21	153.8
AS42 1-04-F12S	12	R(PT) 1/2	24	22.3	28.5	36.1	50.4	25.5	55.6	50.6	47.4	42.4	22	145.5

Note: Dimensions measured when thread has been screwed in.