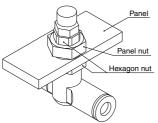
Speed Controller with One-touch Fittings In-line Type/Panel Mount Type

AS□□□1F-3 Series

Panel mount thickness: 3.5 mm at the maximum

Easy installation and removal

Installment of hexagon nuts on panel nuts up and down in two locations enables user to mount or remove it depending upon the situation.





Symbol



Flow Direction Symbols on Body

|--|



Symbol	Specifications
-X12	Lubricant: Vaseline
-X21	Grease-free (Seal: Fluorine-coated) + Throttle valve (Without check valve)
-X214	Throttle valve (Without check valve)

Model

	Applicable tubing O.D.												
Model	Metric size						Inch size						
	3.2	4	6	8	10	12	1/8"	5/32	3/16	1/4"	5/16	3/8"	1/2"
AS1001F	•	•	•				•	•	•	•			
AS2001F		•	•					•	•	•			
AS2051F			•	•					•	•	•		
AS3001F			•	•	•	•				•	•	•	
AS4001F					•	•						•	•

RoHS

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 (1)	Nylon, Soft nylon, Polyurethane

Note 1) Use caution regarding the max. operating pressure when soft nylon or polyurethane tubing is used. (Refer to pages 678 and 682 for details.)

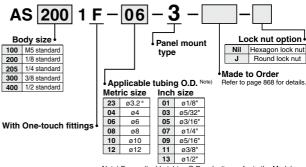
Note 2) Brass parts are all electroless nickel plated.

Flow Rate and Sonic Conductance

Model		AS1001F AS2001F			AS2	051F		AS300	AS4001F		
T 1.	Metric size	ø3.2, ø4, ø6	ø4	ø6	ø6	ø8	ø6	ø8	ø10, ø12	ø10	ø12
Tubing O.D.	Inch size	ø1/8", ø5/32" ø3/16", ø1/4"	ø5/32*	ø3/16", ø1/4"	ø3/16"	ø1/4", ø5/16"	ø1/4"	ø5/16"	ø3/8"	ø3/8°	ø1/2"
Controlled	Flow rate (L/min(ANR))	100	130	230	290	460	420	660	920	1050	1390
Free flow	Sonic conductance (dm3/(s·bar))	0.28	0.36	0.64	0.8	1.3	1.2	1.8	2.6	2.9	3.9
Critical	Controlled flow	0.2	(0.2		0.2	0.2			0.2	
pressure ratio	Free flow	0.25	0	0.25		.25		0.25		0.25	

Note) Flow rate values are measured at 0.5 MPa and 20°C.

How to Order

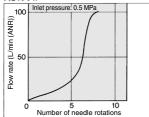


Note) For applicable tubing O.D. selection, refer to the Model.

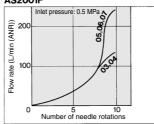
* Use Ø1/8" tube.



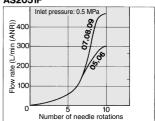
AS1001F



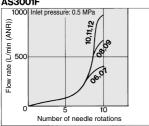
AS2001F



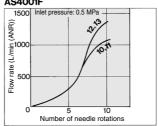
AS2051F



AS3001F



AS4001F



Be sure to read this before handling the products. Refer to page 11 for safety instructions and pages 19 to 22 for flow control equipment precautions.

Made to Order



Lubricant: Vaseline

X12

Grease-free (Seal: Fluorine Coating) + Throttle Valve (Without Check Valve)

Ex.) AS2001F-04-3-X12

Ex.) AS2001F-04-3-X21

Note) Not particle-free

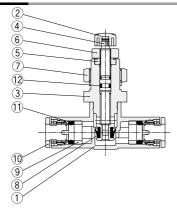
Throttle Valve (Without Check Valve)

X214

Ex.) AS2001F-04-3-X214

Speed Controller with One-touch Fittings In-line Type/Panel Mount Type AS In-line Type/Panel Mount Type

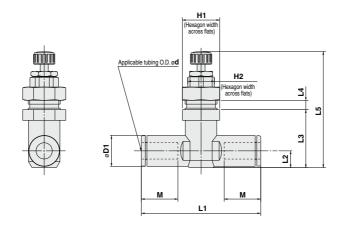
Construction



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	Steel (1)	Zinc chromated
7	Panel nut	Brass	Electroless nickel plated
8	U seal	HNBR	
9	Spacer	_	
10	Cassette	_	
11	Packing	NBR	
12	O-ring	NBR	

Note 1) Option: The round lock nut is made of electroless nickel plated brass.

Dimensions



Metric Size

Model	d	D1	Н1	H2	L1	L2	L3	L4	L5		М	Panel-cut dimensions	Weight							
			•••					Мах.	Max.	Min.		umensurs	(g)							
AS1001F-23-3	3.2	8.4			38	4.5	16.8		37.6	34.4	12.7		18							
AS1001F-04-3	4	9.3	12	8	39.2	5.2	17.4	3.5	38.2	35	12.7	10.5	19							
AS1001F-06-3	6	11.6			40.7	6.2	18.5		39.3	36.1	13.5		20							
AS2001F-04-3	4	9.3	14	10	40.7	5.2	20.7	3.5	48	42.5	12.7	12.5	28							
AS2001F-06-3	6	11.6	14	10	44.8	6.3	21.8	3.5	49.1	43.6	13.5	12.5	29							
AS2051F-06-3	6	12.8	17	17 13	53.2	6.7	25.7	۸.	53.5	48.1	17	15.5	49							
AS2051F-08-3	8	15.2	17		59.8	8.1	27	3.5	54.8	49.4	18	13.3	54							
AS3001F-06-3	6	12.8										59	7.4	31.3		60.1	54.7	17		85
AS3001F-08-3	8	15.2	21	16	64.4	8.2	32.1	.1	60.9	55.5	18	18.5	88							
AS3001F-10-3	10	18.5	21	10	71.6	9.8	33.7	3.5	62.5	57.1	21		99							
AS3001F-12-3	12	20.9			76	11	34.9		63.7	58.3	22		100							
AS4001F-10-3	10	18.5	27	21	77.7	11.2	35	۸.	69.3	61	21	24.5	167							
AS4001F-12-3	12	20.9	21	21	82.1	11.3	36	3.5	70.3	62	22		171							

Note 1) Reference dimensions

Inch Size

Model	d	D1	ш	H2	L1	L2	L3	L4	L5		м	Panel-out	Weight		
Wodei	u	וט		112				Max.	Max.	Min.	IVI	dmensions	(g)		
AS1001F-01-3	1/8"	8.4			38	4.5	16.8		37.6	34.4	12.7		18		
AS1001F-03-3	5/32"	9.3	12	8	39.2	5.2	17.4	3.5	38.2	35	12.7	10.5	19		
AS1001F-05-3	3/16"	11.4	12	٥	48.7	6.2	18.5	3.5	39.3	36.1	16.5	10.5	24		
AS1001F-07-3	1/4"	12			40.7	0.2	10.5		00.0	30.1	13.7		21		
AS2001F-03-3	5/32"	9.3			40.7	5.2	20.7		48	42.5	12.7		28		
AS2001F-05-3	3/16"	11.4	14	14	14	10	50	6.2	21.6	3.5	48.9	43.4	16.5	12.5	34
AS2001F-07-3	1/4"	13.2			52.2	7.1	22.5		49.8	44.3	17		37		
AS2051F-05-3	3/16"	11.4			52.2	6.2	25.2	3.5	53	47.6	16.5	15.5	47		
AS2051F-07-3	1/4"	13.2	17	13	54.4	7.1	26		53.8	48.4	17 18		49		
AS2051F-09-3	5/16"	15.2			59.8	8.1	27		54.8	49.4			54		
AS3001F-07-3	1/4"	13.2			59	7.4	31.3		60.1	54.7	17		84		
AS3001F-09-3	5/16"	15.2	21	16	64.4	8.2	32.1	3.5	60.9	55.5	18	18.5	88		
AS3001F-11-3	3/8"	17.2			70.8	9.5	33.3		62.1	56.7	21		95		
AS4001F-11-3	3/8"	17.9	27	21	76.9	10.3	34.9	3.5	69.2	60.9	21		175		
AS4001F-13-3	1/2"	21.7	21	21	83.1	11.6	36.3	3.5	70.6	62.3	22	24.5	188		
			_	_							_				

Note 1) Reference dimensions



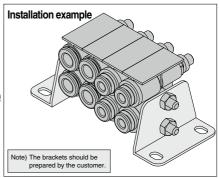
Speed Controller with One-touch Fittings/Centralized Piping Type

Made to Order Specifications AS-DPP00092/00093

A3-DPP00092/0093 Please contact SMC for details dimensions, specifications and lead times.







Specifications

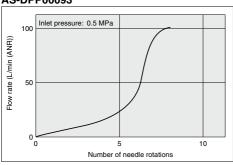
Model	AS-DPP00092	AS-DPP00093				
Applicable tubing O.D.	ø4	ø6				
Fluid	А	ir				
Proof pressure	1.5 MPa					
Max. operating pressure	1 MPa (0.7 MPa Note 1))					
Min. operating pressure	0.1 MPa					
Ambient and fluid temperature	-5 to 60°C (No freezing)					
Applicable tubing material Note 1)	Nylon, Soft nylon, Polyurethane					

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

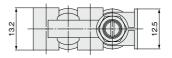
(Refer to pages 678 and 682 for details.) Note 2) Brass parts are all electroless nickel plated.

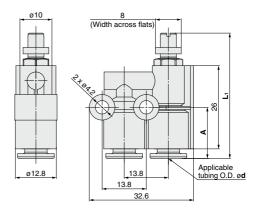
Flow Rate Characteristics

AS-DPP00092 AS-DPP00093



Dimensions





Dimensions				(mm
Model	Applicable	А	L	.1
Model	tubing O.D. d	A	MAX.	MIN.
AS-DPP00092	4	19.4	46.9	42.7
AS-DPP00093	6	16	43.5	39.3
A3-DPP00093	U	10	40.0	33.3