

Series 10-AS-FM

Speed controller for low-speed operation
with One-touch fittings (Inline type)

How to Order

10 — AS 200 1 F M — 06 —

● Clean series

● Body size

100	M5 standard
200	1/8 standard
205	1/4 standard

● Lock nut option

Nil	Hexagon lock nut
J	Round lock nut

● Applicable tubing O.D. (Note)
Metric size

23	ø3.2 *
04	ø4
06	ø6
08	ø8

● With One-touch fittings

● For low speed control

Note) Refer to the following Model list for selection of applicable tubing O.D.
* ø1/8 tubing should be used.



Model

Model	Applicable tubing O.D				Applicable tubing I.D. (mm)
	Metric size				
	3.2	4	6	8	
10-AS1001FM	●	●	●		6, 10, 16, 20
10-AS2001FM		●	●		20, 25, 32
10-AS2051FM			●	●	20, 25, 32, 40

Specifications

Proof pressure	1.5MPa
Max. operating pressure	1MPa
Min. operating pressure	0.1MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Applicable tubing material	Polyurethane ^{Note 1)}
Grease	Fluorine grease
Particle generation grade (Refer to front matter pages 13 to 22 for details.)	Grade 3

Note 1) The maximum operating pressure for polyurethane (at 20 °C) is 0.8 MPa.
(Refer to page 372 in Best Pneumatics No. 6 for details.)

- * Brass parts are all electroless nickel plated.
- * The knob of the M5 type is black zinc chromated.

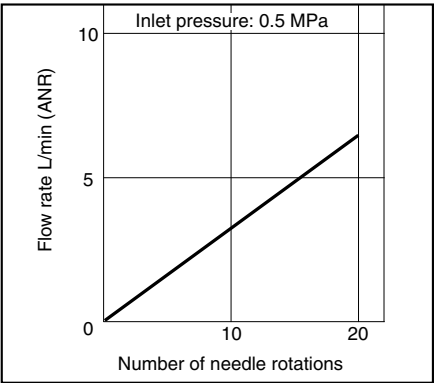
Air flow / Effective area

Model		10-AS1001FM	10-AS2001FM		10-AS2051FM	
Tubing O.D.	Metric size	ø3.2, ø4, ø6	ø4	ø6	ø6	ø8
Controlled flow	Flow rate L/min (ANR)	7	12		38	
	Effective area (mm²)	0.1	0.2		0.6	
Free flow	Flow rate L/min (ANR)	100	130	230	290	460
	Effective area (mm²)	1.5	2	3.5	4.5	7

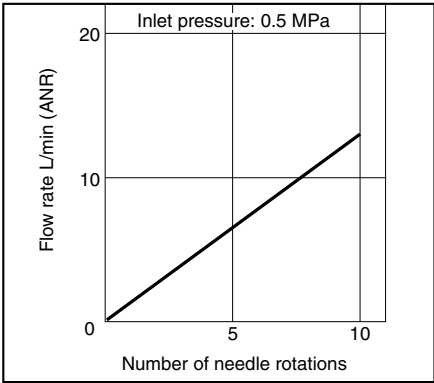
Note) Supply pressure: 0.5MPa, Temperature: 20°C.

Needle valve / Flow characteristics

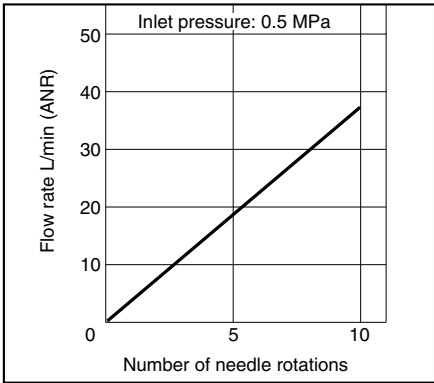
10-AS1001FM



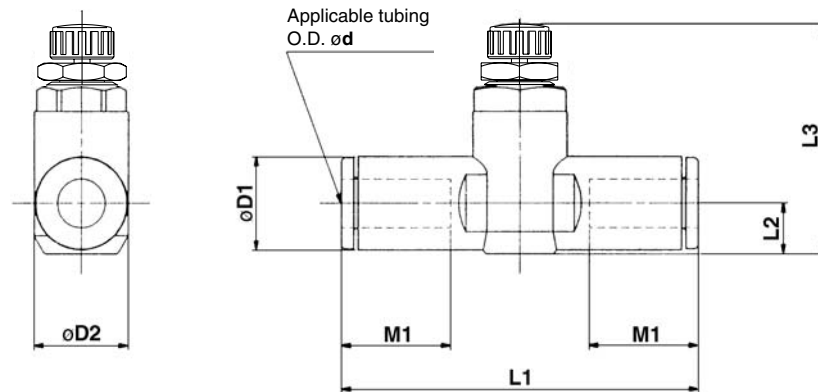
10-AS2001FM



10-AS2051FM



Dimensions



Model	d	D1	D2	L1	L2	L3		M1	Weight (g)
						MAX.	MIN.		
10-AS1001FM-23	3.2	8.4	10	38	4.5	27.7	24.9	12.7	6
10-AS1001FM-04	4	9.3		39.2	5.2	28.5	25.5		7
10-AS1001FM-06	6	11.6		40.7	6.2	29.8	26.6		8
10-AS2001FM-04	4	9.3	11.8	44.8	5.2	32.6	27.6	12.7	12
10-AS2001FM-06	6	11.6		44.8	6.3	33.7	28.7	13.5	13
10-AS2051FM-06	6	12.8	14.8	53.2	6.7	35.2	30.2	17	26
10-AS2051FM-08	8	15.2		59.8	8.1	36.5	31.5	18	31

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

Air preparation equipment

Pressure switch

Clean gas filter