

# Series 10-ASD-FM

Dual Speed Controller for Low Speed Operation



## How to Order

**10 – ASD 3 3 0 F M – 01 06 S**  

- Clean series**
- Body size**

2	M5 standard
3	1/8 standard
4	1/4 standard
- Type**

3	Universal
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- With One-touch fittings**
- For low speed control**
- Lock nut option**


Nil	Hexagon lock nut
J	Round lock nut
- With sealant**
  - \* S is not necessary in case of M5 types, which are not provided with sealant.
- Applicable tubing O.D. (Note)**

**Metric size**

04	ø4
06	ø6
08	ø8
10	ø10

(Note) Refer to the following Model list for selection of applicable tubing O.D.
- Port size**

M5	M5 x 0.8
01	R1/8
02	R1/4



## Model

Model	Applicable tubing			
	Metric size			
	4	6	8	10
10-ASD230FM-M5	●	●		
10-ASD330FM-01		●	●	
10-ASD430FM-02		●	●	●

### Specifications

<b>Proof pressure</b>	1.5 MPa
<b>Max. operating pressure</b>	1 MPa
<b>Min. operating pressure</b>	0.1 MPa
<b>Ambient and fluid temperature</b>	-5 to 60°C (No freezing)
<b>Applicable tubing material</b>	Polyurethane <sup>(Note 1)</sup>
<b>Grease</b>	Fluorine grease
<b>Cleanliness class (ISO class)</b>	Class 5

Note 1) The maximum operating pressure for polyurethane (at 20 °C) is 0.8 MPa.  
(Refer to the **WEB catalog** for details.)

\* The knob of the M5 type and the lock nut of the meter-in type are black zinc chromated.

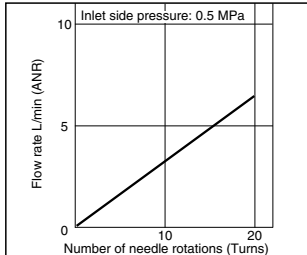
### Flow Rate and Sonic Conductance

Model		10-ASD230FM	10-ASD330FM	10-ASD430FM
<b>Tubing O.D.</b>	Metric size	ø4, ø6	ø6, ø8	ø6, ø8, ø10
<b>Controlled flow</b>	Flow rate L/min (ANR)	7	12	38
	Sonic conductance dm <sup>3</sup> /(s bar)	0.02	0.04	0.12
	Critical pressure ratio	0.25	0.2	0.2
<b>Free flow</b>	Flow rate L/min (ANR)	7	12	38
	Sonic conductance dm <sup>3</sup> /(s bar)	0.02	0.04	0.12
	Critical pressure ratio	0.3	0.15	0.15

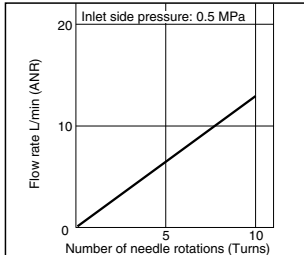
Note 1) Supply pressure: 0.5 MPa, Temperature: 20°C.

### Needle Valve / Flow Rate Characteristics

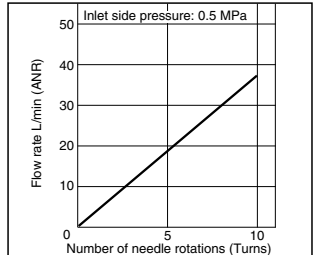
**10-ASD230FM**



**10-ASD330FM**



**10-ASD430FM**



Directional Control Valves

Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

Modular F. R.

Pressure Control Equipment

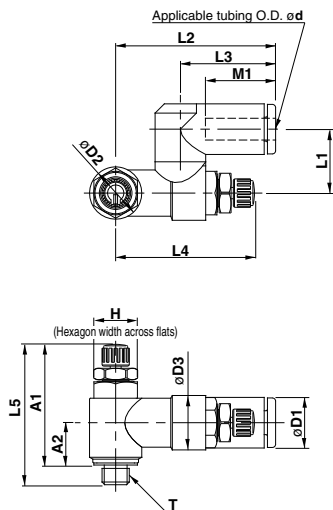
Fittings & Tubing

Flow Control Equipment

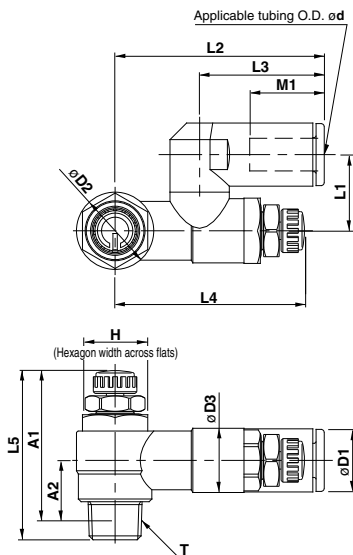
Pressure Switches/ Pressure Sensors

**Dimensions**

**10-ASD230FM**



**10-ASD330FM/430FM**



Model	d	T	H	D1	D2	D3	L1	L2	L3	L4		L5		A1 *		A2 *	M1	Weight (g)			
										MAX.	MIN.	MAX.	MIN.	MAX.	MIN.						
10-ASD230FM-M5-04	4	M5 x 0.8	8	9.3	9.6	10	11.7	29.4	17.5	34.6	29.6	33.8	28.8	30.1	25.1	7.8	12.7	12			
10-ASD230FM-M5-06	6			11.6				32.5	20.6									13			
10-ASD330FM-01-06S	6	R1/8	12	11.6	14.2	11.8	14	38.5	22.9	39.6	34.6	36.1	31.1	32.1	27.1	10.6	18.5	29			
10-ASD330FM-01-08S	8			15.2			15.8	44.8	28.2									38.9	33.9	31	
10-ASD430FM-02-06S	6	R1/4	17	12.8	18.5	15	18	43.5	25.2	41.8	36.8	40.4	35.4	34.4	29.4	11	18.5	17			
10-ASD430FM-02-08S	8			15.2				46.5	28.2									36.8	35.4	29.4	55
10-ASD430FM-02-10S	10			18.5				19.7	49.3									31	21	58	

\* Reference threaded dimensions after being screwed in.