

Dual Speed Controller for Low Speed Operation with One-touch Fitting

Series ASD-FM

Two flow control valves and check valves integrated.

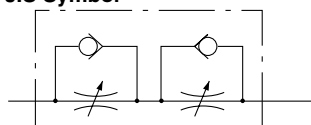
Prevention of a stick-slip phenomenon, and speed control of a single acting cylinder.

Stable speed control is achievable even with load fluctuations.

Low speed control for small bore cylinders.



JIS Symbol



Flow Direction Symbols on Body

	Meter-out type	Meter-in type
Symbol		
JIS Symbol		

Model

Model	Applicable tubing									
	Metric size				Inch size					
	4	6	8	10	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"
ASD230FM-M5	●	●								
ASD330FM-01		●	●							
ASD430FM-02		●	●	●						
ASD230FM-U10/32					●	●	●	●		
ASD330FM-N01							●	●	●	
ASD430FM-N02								●	●	●

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)
Number of needle rotations	10 turns (20 turns ⁽¹⁾)
Applicable tubing material ⁽²⁾	Nylon, Soft nylon, Polyurethane, Soft polyurethane

Note 1) In the case of ASD230FM type

Note 2) Use caution regarding the max. operating pressure when soft nylon or polyurethane, or soft polyurethane tubing is used.
(Refer to pages 15-6-3 to 15-6-5 for details.)

Note 3) Brass parts are all electroless nickel plated. The meter-in side lock nut and the M5 type handle are black zinc chromate plated.

Flow Rate and Effective Area

Model		ASD230FM	ASD330FM	ASD430FM	
Tubing O.D.	Metric size	ø4, ø6	ø6, ø8	ø6	ø8, ø10
	Inch size	ø1/8", ø5/32" ø3/16", ø1/4"	ø3/16", ø1/4"	—	ø1/4", ø5/16" ø3/8"
Controlled flow (Free flow)	Flow rate (ℓ/min(ANR))	7	12	38	
	Effective area (mm ²)	0.1	0.2	0.6	

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

AS

ASP

ASN

AQ

ASV

AK

ASS

ASR

ASF

How to Order

ASD 3 3 0 F M — 01 — 06 S

Body size

2	M5 standard
3	1/8 standard
4	1/4 standard

Type

3	Universal
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With one-touch fitting

For low speed control

Thread type

Nil	Metric thread (M5)
	Unified thread (10-32 UNF)
	R
N	NPT

Port size

M5	M5 x 0.8
U10/32	10-32 UNF
01	1/8
02	1/4

With seal

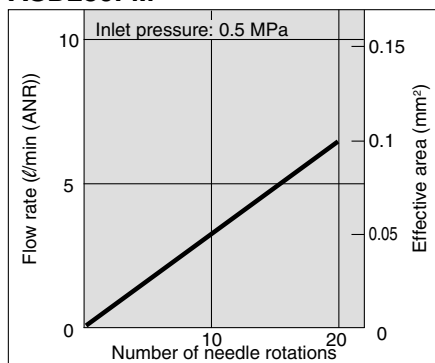
* M5 and U10/32 types, as they are not available with seal.

Applicable tubing O.D.

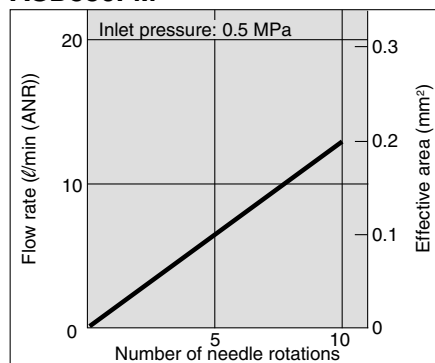
Metric size		Inch size	
04	ø4	01	ø1/8"
06	ø6	03	ø5/32"
08	ø8	05	ø3/16"
10	ø10	07	ø1/4"
		09	ø5/16"
		11	ø3/8"

Needle Valve/Flow Characteristics

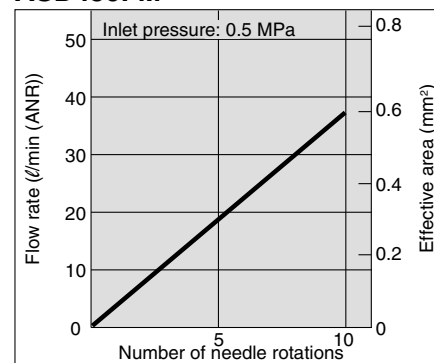
ASD230FM



ASD330FM



ASD430FM

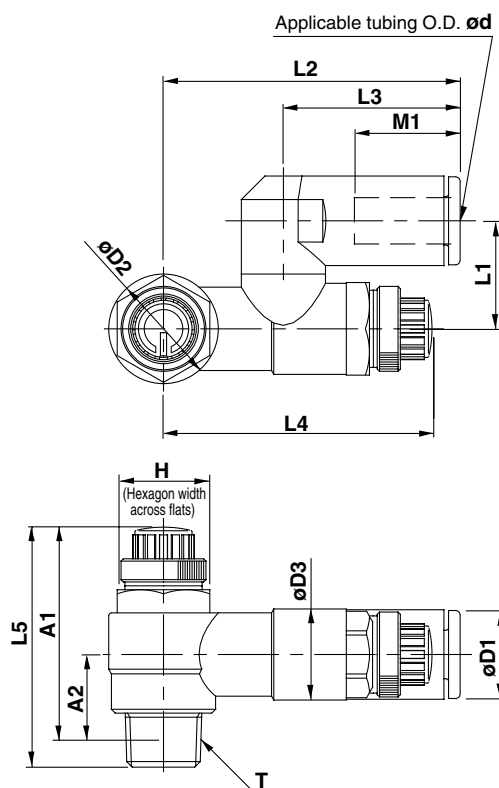
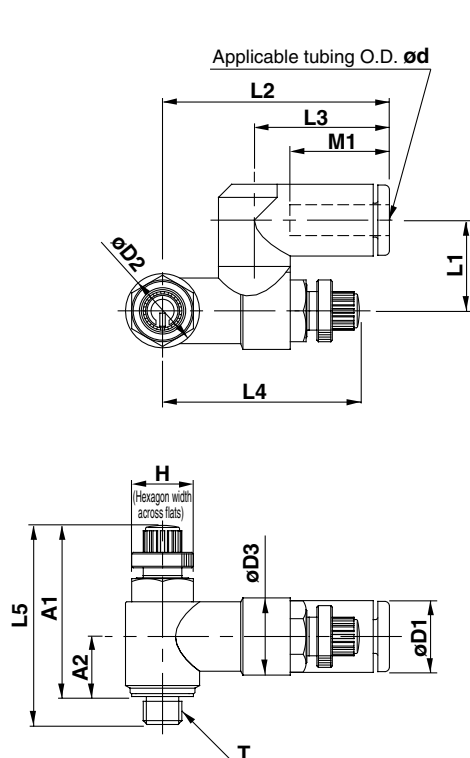


Series ASD-FM

Dimensions: Metric Size

ASD230FM

ASD330FM/430FM



Metric Size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4		L5		A1*		A2*	M1	Weight (g)
										Max.	Min.	Max.	Min.	Max.	Min.			
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	12.9	12
ASD230FM-M5-06	6			11.6				32.5	20.6								13.7	13
ASD330FM-01-06S	6	R 1/8	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	13.7	29
ASD330FM-01-08S	8			15.2			15.8	44.8	28.2	38.9	33.9						18.5	31
ASD430FM-02-06S	6	R 1/4	17	12.8	18.5	15	18	43.5	25.2	41.8	36.8	40.4	35.4	34.4	29.4	11	17	53
ASD430FM-02-08S	8			15.2				46.5	28.2								18.5	55
ASD430FM-02-10S	10			18.5			19.7	49.3	31								21	58

* Reference dimensions of M5 x 0.8, R threads after installation.