

Speed Controller for Low Speed Operation with One-touch Fitting Elbow Type/Universal Type (Resin Body) **Series AS-FM**

How to Order

AS 2 2 0 1 F M - 01 - 06

Body size

1	M5 standard
2	1/8, 1/4 standard

Type

2	Elbow
3	Universal

Control type

0	Meter-out
1	Meter-in

With One-touch fitting

For low speed control

Thread type

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

Option

Nil	None
S	With seal

* M5 and U10/32 are not available with seal.

Applicable tubing O.D.

Metric size		Inch size	
23	ø3.2 *	01	ø1/8"
04	ø4	03	ø5/32"
06	ø6	05	ø3/16"
08	ø8	07	ø1/4"
10	ø10	09	ø5/16"
		11	ø3/8"

* Use ø1/8" tube.

Port size

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

Made to Order
Refer to the below for details.

Made to Order

Lubricant: Vaseline

X12

Ex.) AS1201FM-M5-23-X12

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

X21

Ex.) AS1201FM-M5-23-X21

Note 1) Not particle-free

Note 2) Throttle valve is only compatible with the part no. of the meter-out type.

Throttle Valve (Without Check Valve)

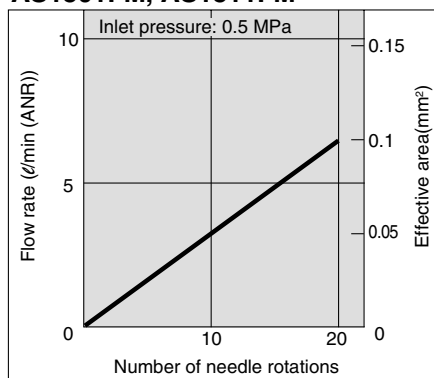
X214

Ex.) AS1201FM-M5-23-X214

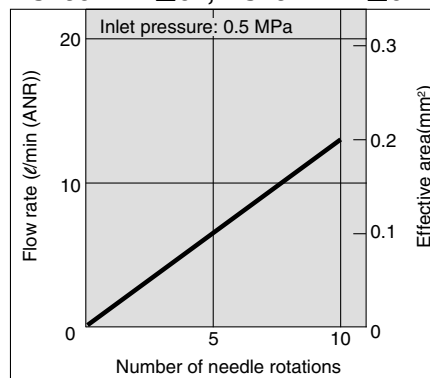
Note) Throttle valve is only compatible with the part no. of the meter-out type.

Needle Valve/Flow Characteristics

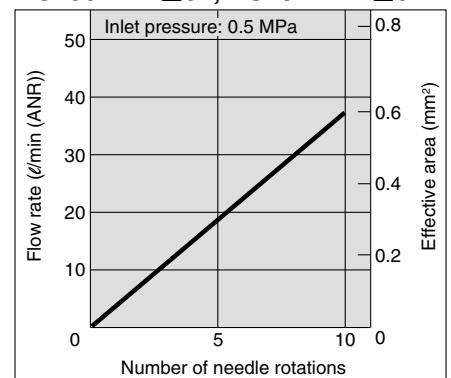
AS1201FM, AS1211FM
AS1301FM, AS1311FM



AS2201FM-□01, AS2211FM-□01
AS2301FM-□01, AS2311FM-□01



AS2201FM-□02, AS2211FM-□02
AS2301FM-□02, AS2311FM-□02

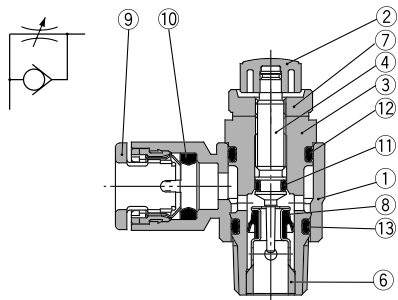


Series AS-FM

Construction: Elbow Type

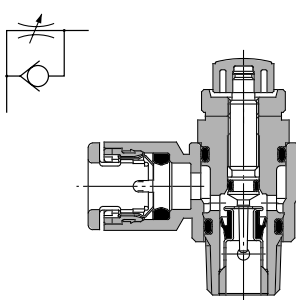
Meter-out type

JIS Symbol

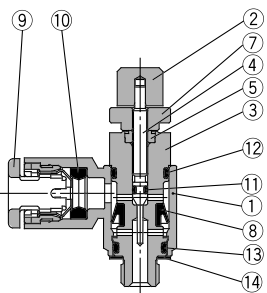


Meter-in type

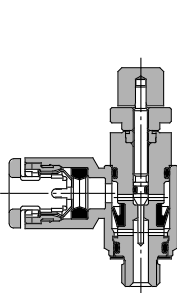
JIS Symbol



M5 type U10/32 type



M5 type U10/32 type



Component Parts

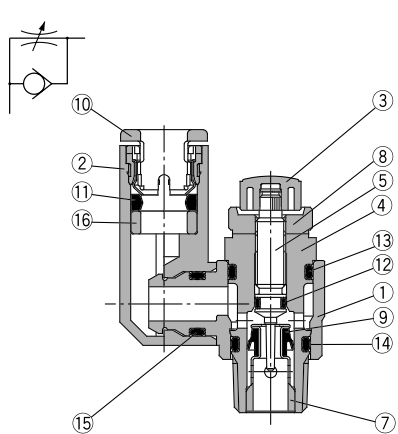
No.	Description	Material	Note
1	Body A	PBT	White
2	Handle	PBT	Black ⁽¹⁾
3	Body B	Brass	Electroless nickel plated
4	Needle	Brass	Electroless nickel plated
5	Needle guide	Brass	Electroless nickel plated, M5 type only
6	Seat ring	Brass	Electroless nickel plated
7	Lock nut	Brass ⁽²⁾	Electroless nickel plated ⁽³⁾
8	U seal	HNBR	
9	Cassette	—	
10	Seal	NBR	
11	O-ring	NBR	
12	O-ring	NBR	
13	O-ring	NBR	
14	Gasket	NBR, Stainless steel	M5 type only

Note 1) M5 and U10/32 types are black zinc chromate plated.
Note 2) AS22□1FM type is made of steel.
Note 3) Meter-in type is black zinc chromate plated.

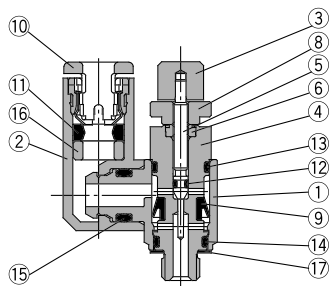
Construction: Universal Type

Meter-out type

JIS Symbol

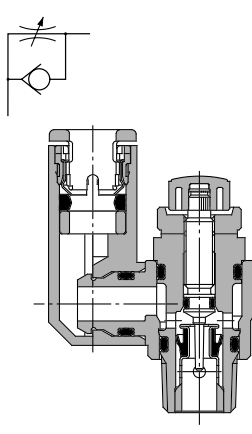


M5 type U10/32 type

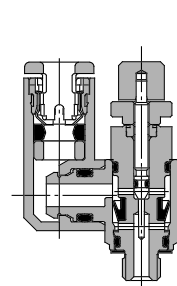


Meter-in type

JIS Symbol



M5 type U10/32 type



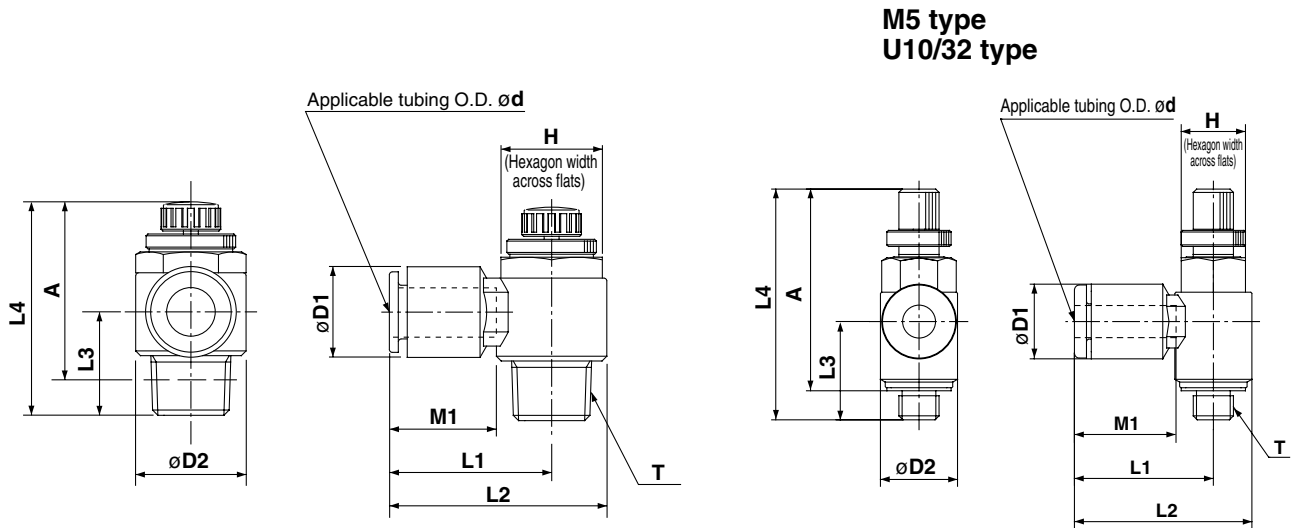
Component Parts

No.	Description	Material	Note
1	Body A	PBT	White
2	Elbow body	PBT	White
3	Handle	PBT	Black ⁽¹⁾
4	Body B	Brass	Electroless nickel plated
5	Needle	Brass	Electroless nickel plated
6	Needle guide	Brass	Electroless nickel plated, M5 type only
7	Seat ring	Brass	Electroless nickel plated
8	Lock nut	Brass ⁽²⁾	Electroless nickel plated ⁽³⁾
9	U seal	HNBR	
10	Cassette	—	
11	Seal	NBR	
12	O-ring	NBR	
13	O-ring	NBR	
14	O-ring	NBR	
15	O-ring	NBR	
16	Spacer	—	
17	Gasket	NBR, Stainless steel	M5 type only

Note1) M5 and U10/32 types are black zinc chromate plated.
Note2) AS23□1FM type is made of steel.
Note3) Meter-in type is black zinc chromate plated.

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Dimensions: Elbow Type



Metric Size

Model	d	T	H	D1	D2	L1	L2	L3	L4 (1) (2)		A (1) (2)		M1	Mass (g)
									Max.	Min.	Max.	Min.		
AS12□1FM-M5-23	3.2	M5 x 0.8	8	8.4	9.6	17.3	22.1	12.3	33.8	28.8	30.1	25.1	12.7	7
AS12□1FM-M5-04	4			9.3		17.3	22.1						13.5	
AS12□1FM-M5-06	6			11.6		18.1	22.9						13.5	
AS22□1FM-01-23	3.2	R 1/8	12	9.3	14.2	20.4	27.5	13.4	35.2	30.2	32.1	27.1	12.7	17
AS22□1FM-01-04	4			9.3		20.4	27.5						13.5	
AS22□1FM-01-06	6			11.6		20.4	27.5						18.5	
AS22□1FM-01-08	8			15.2		25.3	32.4						18.5	
AS22□1FM-02-04	4	R 1/4	17	10.4	18.5	25.2	34.4	17.7	39.9	34.9	34.4	29.4	16	32
AS22□1FM-02-06	6			12.8		25.2	34.4						17	
AS22□1FM-02-08	8			15.2		27.2	36.4						18.5	
AS22□1FM-02-10	10			18.5		35.3	44.5						21.0	

Note 1) Reference dimensions

Note 2) Reference dimensions of M5 and R threads after installation.

Inch Size

Model	d	T	H	D1	D2	L1	L2	L3	L4 (1)		A (2)		M1	Mass (g)
									Max.	Min.	Max.	Min.		
AS12□1FM-U10/32-01	1/8"	10-32 UNF	8	8.4	9.6	17.3	22.1	12.3	33.8	28.8	30.1	25.1	12.7	7
AS12□1FM-U10/32-03	5/32"			9.3		17.3	22.1						16.5	
AS12□1FM-U10/32-05	3/16"			11.4		21.3	26.1						13.5	
AS12□1FM-U10/32-07	1/4"	NPT 1/8	12.7	12	14.2	18.3	23.1	11.7	35.2	30.2	32.1	27.1	12.7	16
AS22□1FM-N01-01	1/8"			9.3		20.4	27.5						16.5	
AS22□1FM-N01-03	5/32"			13.2		24	31.1						18.5	
AS22□1FM-N01-07	1/4"			13.2		23.9	31						21	
AS22□1FM-N01-09	5/16"	NPT 1/4	17.5	15.2	18.5	25.3	32.4	13.4	39.9	34.9	34.4	29.4	21	36
AS22□1FM-N02-03	5/32"			10.4		25.2	34.4						16	
AS22□1FM-N02-05	3/16"			12.8		25.2	34.5						17	
AS22□1FM-N02-07	1/4"			13.2		25.2	34.5						18.5	
AS22□1FM-N02-09	5/16"			15.2		27.2	36.4						21	
AS22□1FM-N02-11	3/8"			18.5		35.3	44.5						21	

Note 1) Reference dimensions

Note 2) Reference dimensions of 10-32 UNF and NPT threads after installation.