Speed Controller: Standard Type Elbow Type (Metal Body) **AS Series**



Minimizes installation time and cost

Fittings and tubing are not necessary because this type screws directly into the actuator. Thus, piping labor and cost can be eliminated.

Body swivels 360° Swivel type allows free setting of piping.

Speed may be accurately controlled even at low speeds.

Able to control and set a constant speed easily.

Retainer prevents accidental loss of needle.

AS4200-04 AS3200-03 AS2200-02 AS2200-01 AS1200-M5 AS1200-M3 AS1400-M3 Symbo Made t Made to Order Order (For details, refer to page 647.) Symbol Specifications -X12 Lubricant: Vaseline -X21 Grease-free (Seal: Fluorine-coated) + Throttle valve (Without check valve) -X214 Throttle valve (Without check valve)

Specifications

opeem											
Specifications Model		AS1200-M3	AS1400-M3	AS12[]0-M5	AS12[]0-U10/32	AS22[]0-01	AS22[]0-02	AS32[]0-03	AS42[]0-0		
Port size		M3 3	¢ 0.5	M5 x 0.8	10-32 UNF	1/8	1/4	3/8	1/2		
Fluid		Air									
Proof pre	essure	1.05	1.05 MPa 1.5 MPa								
Max. ope	rating pressure	0.7 MPa		1 MPa							
Min. ope	rating pressure	0.1 MPa		0.1 MPa							
Ambient ar	nd fluid temperature	-5 to 60°C (No freezing)									
Option		 Round lock nut With seal, Round lock nut, Nick 					kel plated				
Weight (g)		3	6	1	0	29	64	106	181		
Controlled flow	Flow rate L/min (ANR)	20		1	05	230	460	920	1700		
Free flow	Sonic conductance dm ³ /(s-bar)	0.06		0.	32	0.7	1.4	2.8	5.2		
Critical pressure ratio	Controlled flow	0.2		0	.2	0.25	0.3	0.25	0.25		
	Free flow	0.4		0	.4	0.2	0.3	0.2	0.3		

Note 1) Flow rate values are measured at 0.5 MPa and 20°C.

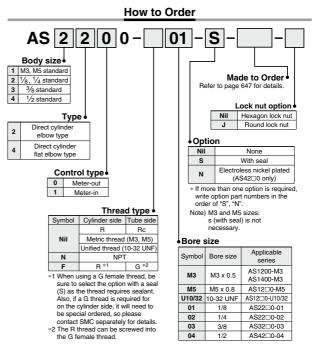
SMC

Note 2) Meter-in type not available on AS1200-M3, AS1400-M3.

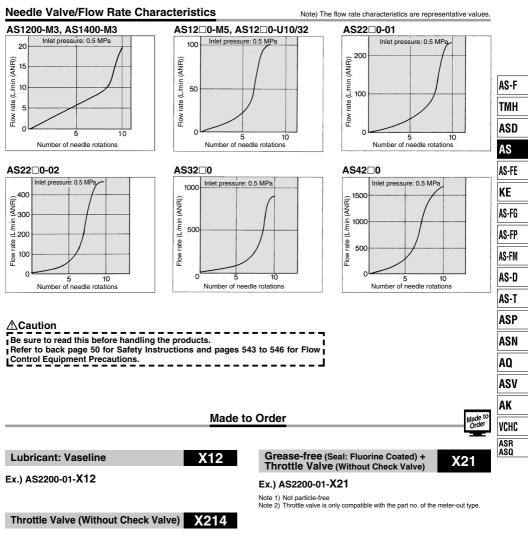
Note 3) Distinction between meter-out/meter-in types by appearance.

Those are distinguished by the lock nut. The meter-out type is zinc chromated (the round lock nut is electroless nickel plated), while the meter-in type is black zinc chromate nated

Note 4) AS12^[]0, AS1400, AS22^[]0, AS32^[]0: Brass parts are electroless nickel plated, provided as standard. (N specifications)



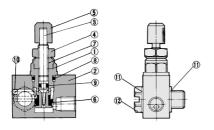
Speed Controller: Standard Type Elbow Type (Metal Body) **AS** Series



Ex.) AS2200-01-X214

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

Construction: AS1400-M3



Component Parts

0011									
No.	Description	Material	Note						
1	Body B	Brass	Electroless nickel plated						
2	Body A	Brass	Electroless nickel plated						
3	Needle	Brass	Electroless nickel plated						
4	Lock nut	Steel (1)	Zinc chromated (1)						
5	Handle	Brass	Electroless nickel plated						
6	U seal	HNBR							
7	Needle guide	Brass	Electroless nickel plated						
8	O-ring	NBR							
9	O-ring	NBR							
10	Steel ball	Chromium bearing steel							
11	Gasket	PVC							
12	Joint	Brass	Electroless nickel plated						

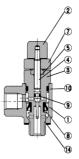
Note 1) The material and surface treatment of the lock nut option-J (round type) is brass and electroless nickel plating, respectively.

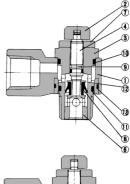
Construction: AS1200-M3, AS12□0-M5, AS22□0/32□0/42□0

Meter-out type

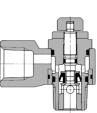
AS1200-M3, M5, U10/32

AS2200, 3200, 4200

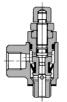




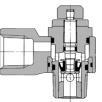




Meter-in type AS1210-M5, U10/32



AS2210, 3210, 4210



Component Parts

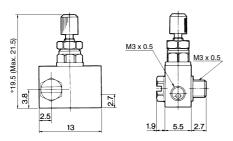
No.	Description	Material	Note				
1	Body A	Zinc alloy					
2	Handle	Brass	Electroless nickel plated				
3	Body B	Brass	Electroless nickel plated				
4	Needle	Brass	Electroless nickel plated				
5	Needle guide	Brass	Electroless nickel plated				
6	Seat ring	Brass	Electroless nickel plated (1)				
7	Lock nut	Steel (2)	Meter-out	Zinc chromate plated (3)			
'		Sleer	Meter-in	Black zinc chromate plated			
8	U seal	HNBR					
9	O-ring	NBR					
10	O-ring	NBR					
11	O-ring	NBR					
12	Bushing	PBT		01 to 04 type			
13	O-ring	NBR		01 to 04 type			
14	Gasket	PVC		M3 type			
	Gasket	NBR, Stainless steel	M5, U10/32 type				

Note 1) For the AS42⊡0 type only, the electroless nickel plating specification is available for option N. Note 2) The material of the lock nut option-J (round type) is brass. However, note that only the AS2⊇©0 uses steel.

Note 3) The surface treatment of the lock nut option-J (round type) is electroless nickel plated.



Dimensions: AS1400-M3

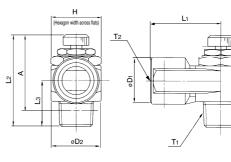


* Reference dimensions

Dimensions: AS-1200-M3, AS1200-M5, AS220/320/420

AS1200-M3 AS120-M5 AS120-U10/32 T2 ~ ∢ ō Г <u>_</u> L1 T1 øD2

AS2200, 3200, 4200



AS-F

тмн

ASD

ni	-	~r		-	ns
וט	m	er	ISI	ο	ns

Model	T1	T2	H ⁽¹⁾	L1	L2		L3	D1	D2	A (2)	
Woder					Max.	Min.	L3		02	Max.	Min.
AS1200-M3	M3 x 0.5	M3 x 0.5	4.5	6.6	23.5	21.5	8	5	5	20.5	18.5
AS12□0-M5	M5 x 0.8	M5 x 0.8	8	10	20.2	25.5	10.0	9	9	25	22.2
AS120-U10/32	10-32UNF	10-32UNF	8	10	28.3	25.5	10.3	9	9	25	22.2
AS22□0-01	1/8	1/8	12 (12.7)	18	35.5	30.5	13.2	14.3	14.6	32.4	27.4
AS22□0-02	1/4	1/4	17 (17.5)	27.2	40.3	35.3	17.5	18	19.5	34.8	29.8
AS32□0-03	3/8	3/8	19	30	45.8	40.8	19.7	22.5	24.3	40.6	35.6
AS42□0-04	1/2	1/2	24 (23.8)	38.5	54.7	49.7	25.8	27.5	28.5	47.4	42.4

Note 1) () are the dimensions of "NPT" thread. Note 2) Reference thread dimensions after installation.

Note 3) L2: Reference dimensions

