

Speed Controller with One-touch Fitting Elbow Type/Universal Type

Series AS

RoHS



Model

Model		Port size	Seal method	Applicable tubing O.D.														
Elbow type	Universal type			Metric size								Inch size						
				2 ^{Note 2)}	3.2	4	6	8	10	12	16	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"	
AS12□1F-M5□	AS13□1F-M5□	M5 x 0.8	Gasket seal	● ^{Note 3)}	●	●	●						●	●	●			
AS12□1F-U10/32□	AS13□1F-U10/32□	10-32UNF		● ^{Note 3)}	●	●	●							●	●	●		
AS22□1F-□01	AS23□1F-□01	R NPT	Sealant ^{Note 1)}		●	●	●	●	● ^{Note 3)}				●	●	●	●		
AS22□1F-□02	AS23□1F-□02			1/8	● ^{Note 3)}	●	●	●	●			● ^{Note 3)}	●	●	●	●	●	
AS32□1F-□02	AS33□1F-□02			1/4				●	●	●	●				●	●	●	
AS32□1F-□03	AS33□1F-□03			3/8				●	●	●	●				●	●	●	
AS42□1F-□04	AS43□1F-□04			1/2						●	●	● ^{Note 3)}					●	●
AS22□1F-G01	AS23□1F-G01	G	Face seal		●	●	●	●	● ^{Note 3)}									
AS22□1F-G02	AS23□1F-G02			1/8	● ^{Note 3)}	●	●	●	●									
AS32□1F-G02	AS33□1F-G02			1/4				●	●	●	●							
AS32□1F-G03	AS33□1F-G03			3/8				●	●	●	●							
AS42□1F-G04	AS43□1F-G04			1/2						●	●	● ^{Note 3)}						

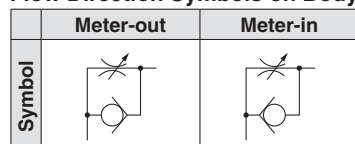
Note 1) "Without sealant" type can be selected as a standard option.

Note 2) Only polyurethane tubing is applicable for ø2.

Note 3) Universal type is not available.

Specifications

Flow Direction Symbols on Body



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)
Applicable tubing material	Nylon, Soft nylon, Polyurethane ^{Note)} , FEP, PFA

Note) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing.
(Refer to the WEB catalogue for details.)

Caution

Be sure to read this before handling.
Refer to the back cover for Safety Instructions. For Flow Control Equipment Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website, <http://www.smcworld.com>

Flow Rate and Sonic Conductance

Model		AS12□1F-M5□ AS13□1F-M5□	AS22□1F-□01Note 3) AS23□1F-□01Note 3)	AS22□1F-□02 AS23□1F-□02				AS32□1F AS33□1F			AS42□1F AS43□1F				
Tubing O.D.	Metric size	ø2	ø3.2 ø4 ø6	ø3.2	ø4	ø6 ø8 ø10	ø3.2	ø4	ø6	ø8 ø10	ø6	ø8	ø10 ø12	ø10	ø12 ø16
	Inch size	—	ø1/8" ø1/4" ø5/32"	ø1/8"	ø5/32"	ø1/4" ø5/16"	ø1/8"	ø5/32"	—	ø1/4" ø5/16" ø3/8"	ø1/4"	ø5/16"	ø3/8"	ø3/8"	ø1/2"
C values: Sonic conductance dm³/(s·bar)	Free flow	0.2	0.3	0.4	0.6	0.6	0.7	1.0	1.3	1.5	1.6	1.7	2.5	4.4	4.8
	Controlled flow	0.2	0.3	0.4	0.7	0.8	0.6	0.9	1.3		2.1	2.4	3.3	4.4	4.9
b values: Critical pressure ratio	Free flow	0.3	0.4	0.2		0.3	0.3		0.4		0.4		0.3	0.3	
	Controlled flow	0.2		0.2		0.3	0.3				0.3			0.3	

Note 1) 10-32UNF has the same specification as M5.

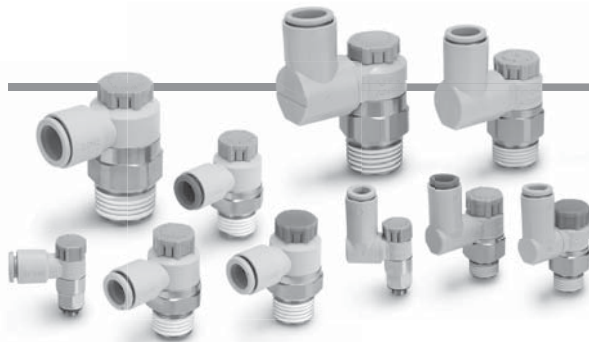
Note 2) C and b values are for controlled flow with the needle fully open and free flow with the needle fully closed.

Note 3) The same specifications also apply to the AS-FG series (stainless steel type).

Speed Controller with One-touch Fitting *Series AS*



How to Order



Width across flats (H)

E	8 mm
—	9 mm

Body size

1	M5 x 0.8 10-32UNF
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Port size

M5	M5 x 0.8
U10/32	10-32UNF

Applicable tubing O.D. ^{Note 1)}

Metric size	Inch size
02	ø2
23	ø3.2 ^{Note 2)}
04	ø4
06	ø6
01	ø1/8"
03	ø5/32"
07	ø1/4"

Note 1) For selecting applicable tubing O.D., refer to the "Model" on page 3. Metric size and inch size types can be visually identified by colour of the release button.

Metric size: Light Grey
Inch size: Orange

Note 2) Use ø1/8" tube.

Body size 1

AS 1 2 0 1 F -

M5 E -

06

A -

Body size 2/3/4

AS 2 2 0 1 F -

01

- 06

S A -

Body size

2	1/8, 1/4
3	3/8
4	1/2

Type

2	Elbow
3	Universal

Control type ^{Note)}

0	Meter-out
1	Meter-in

Note) Meter-out and meter-in types can be visually identified by colour of the handle.
Meter-out: Grey
Meter-in: Light blue

Made to Order
Refer to page 14 for details.

Push-lock type

Seal method

—	Without sealant
S	With sealant

Note) Face seal method is used for the G thread type.
Select "—/Without sealant."
Example) AS2201F-G01-06A

Applicable tubing O.D. ^{Note 1)}

Metric size	Inch size ^{Note 3)}
23	ø3.2 ^{Note 2)}
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12
16	ø16
01	ø1/8"
03	ø5/32"
07	ø1/4"
09	ø5/16"
11	ø3/8"
13	ø1/2"

Note 1) For selecting applicable tubing O.D., refer to the "Model" on page 3.

Note 2) Use ø1/8" tube.

Note 3) Only the metric size is available for the G thread type.

Thread type

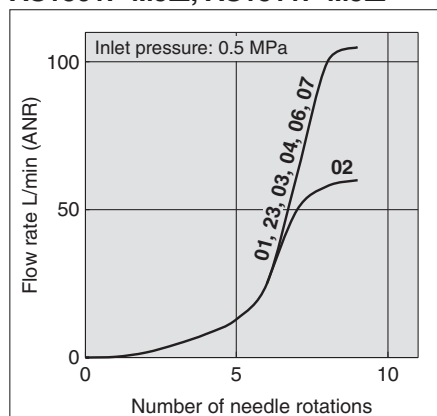
—	R
N	NPT
G	G

Port size

01	1/8
02	1/4
03	3/8
04	1/2

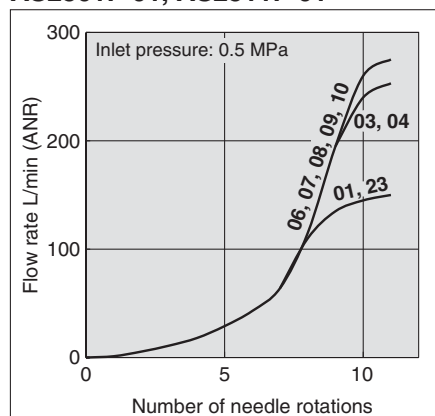
Needle Valve/Flow-rate Characteristics

AS1201F-M5□, AS1211F-M5□
AS1301F-M5□, AS1311F-M5□

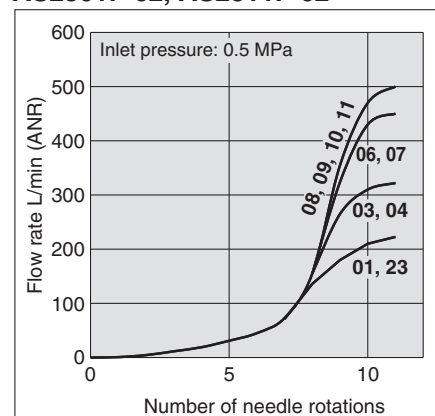


Note) -U10/32 has the same specification as M5.

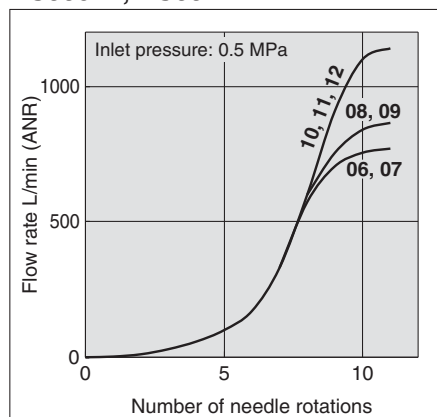
AS2201F-01, AS2211F-01
AS2301F-01, AS2311F-01



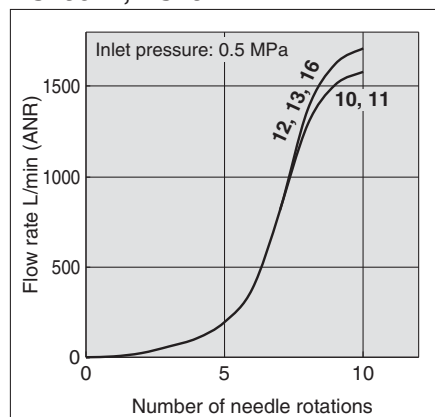
AS2201F-02, AS2211F-02
AS2301F-02, AS2311F-02



AS3201F, AS3211F
AS3301F, AS3311F



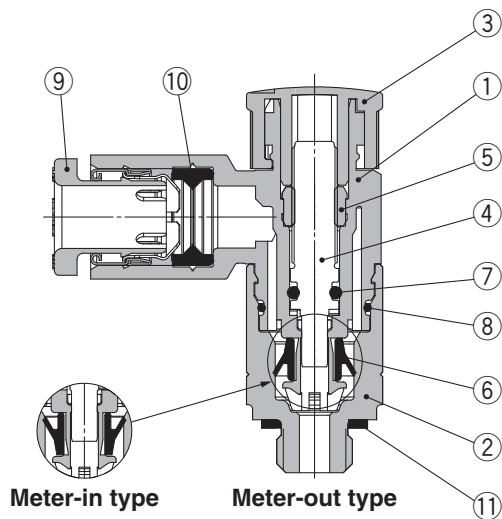
AS4201F, AS4211F
AS4301F, AS4311F



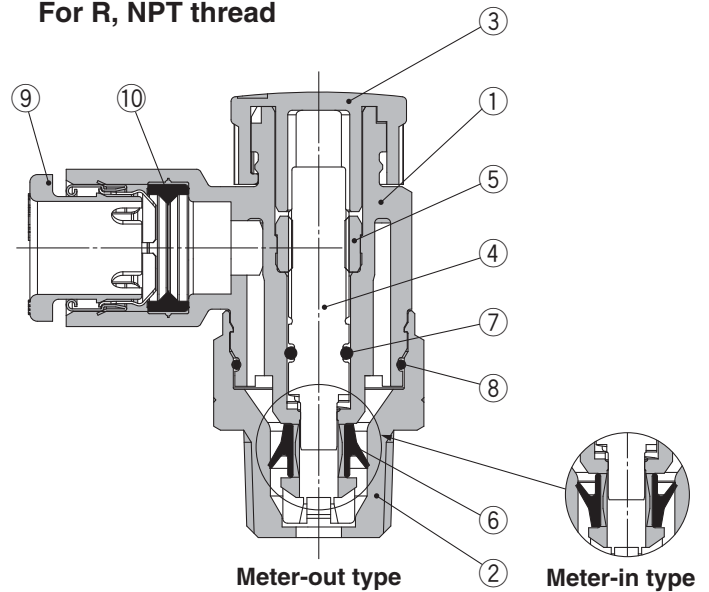
Note) The numbers above the flow-rate characteristic curves in the charts show the applicable tubing outside diameter as defined by the product number.

Construction/ **Elbow type**

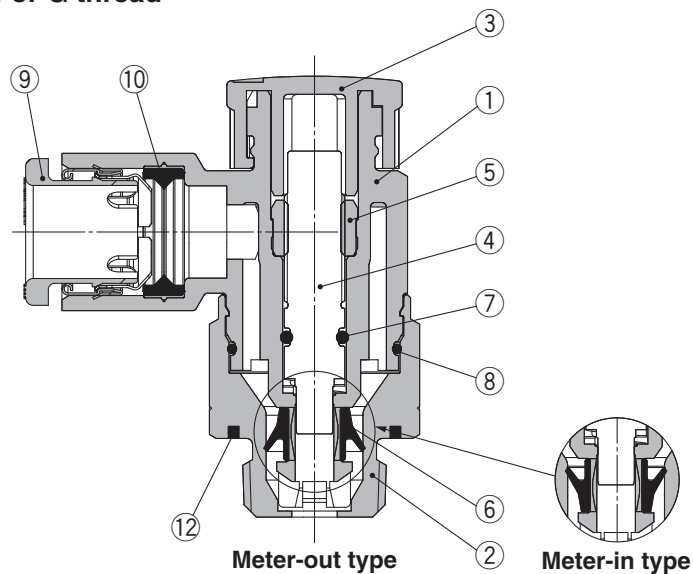
Seal method: Gasket seal
For M5, 10-32UNF



Seal method: Sealant
For R, NPT thread



Seal method: Face seal
For G thread



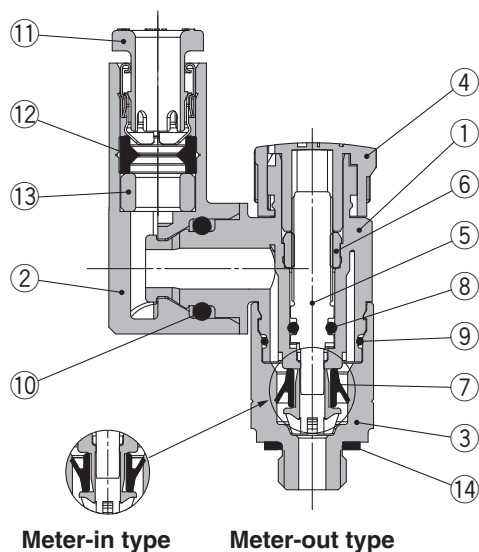
Component Parts

No.	Description	Material	Note
1	Body A	PBT	
2	Body B	Brass	Electroless nickel plating
3	Handle	POM	
4	Needle	PBT	
5	Needle guide	Brass	Electroless nickel plating
6	U-seal	HNBR	
7	O-ring	NBR	
8	O-ring	NBR	
9	Cassette	—	
10	Seal	NBR	
11	Gasket	NBR/Stainless steel	
12	Seal	NBR	

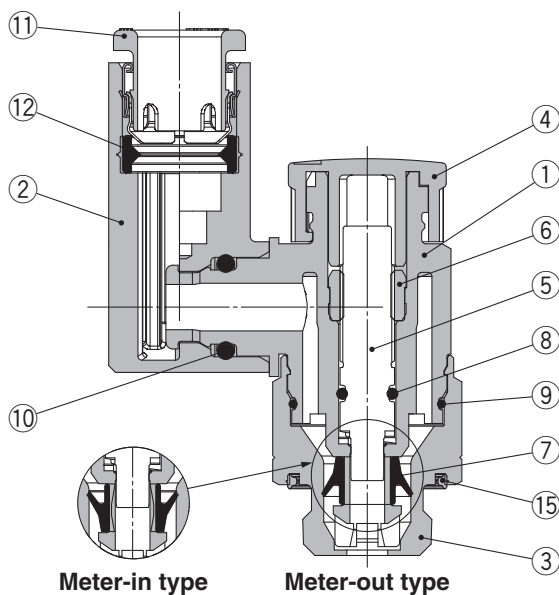
Series AS

Construction/ Universal type

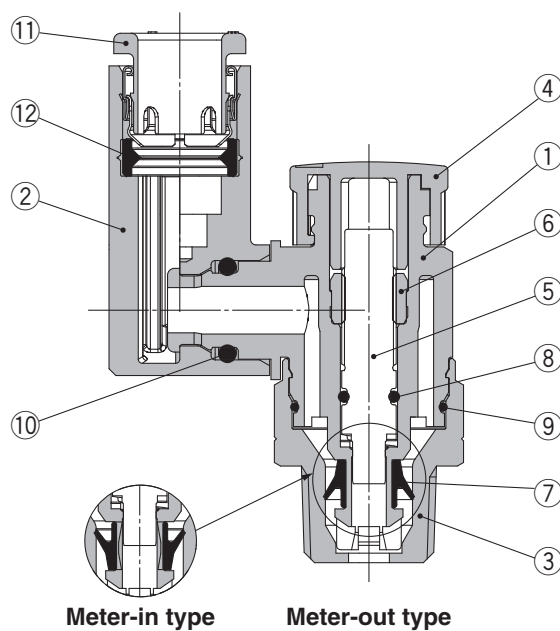
Seal method: Gasket seal
For M5, 10-32UNF



Seal method: Face seal
For G thread



Seal method: Sealant
For R, NPT thread



Component Parts

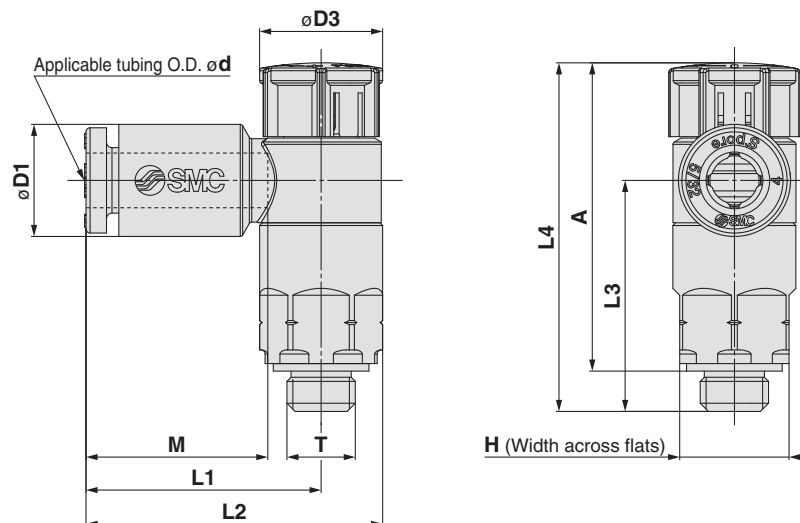
No.	Description	Material	Note
1	Body A	PBT	
2	Elbow body	PBT	
3	Body B	Brass	Electroless nickel plating
4	Handle	POM	
5	Needle	PBT	
6	Needle guide	Brass	Electroless nickel plating
7	U-seal	HNBR	
8	O-ring	NBR	
9	O-ring	NBR	
10	O-ring	NBR	
11	Cassette	—	
12	Seal	NBR	
13	Spacer	PBT (Note)	
14	Gasket	NBR/Stainless steel	
15	Seal	NBR	

Note) Spacer is included only for the applicable tubing O.D. $\phi 3.2$ and $\phi 1/8$ ".

Dimensions/ Elbow type

Seal method: Gasket seal

For M5, 10-32UNF



Metric Size

[mm]

Model	d	T	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	Weight [g]						
									Unlocked	Locked	Unlocked	Locked								
AS12□1F-M5E-02A	2	M5 x 0.8 10/32UNF	8	5.8	9.4	15.8	20.3	16.9	26.5	25.4	23.5	22.4	11.9	5						
AS12□1F-U10/32E-02A																				
AS12□1F-M5E-23A	3.2			7.2		17.2	21.7													
AS12□1F-U10/32E-23A																				
AS12□1F-M5E-04A	4			8.2																
AS12□1F-U10/32E-04A																				
AS12□1F-M5E-06A	6			10.4			18.6	23.1					16.5							6
AS12□1F-U10/32E-06A																				

Note 1) Reference dimensions

Note 2) Reference dimensions of threads after installation

Inch Size

[mm]

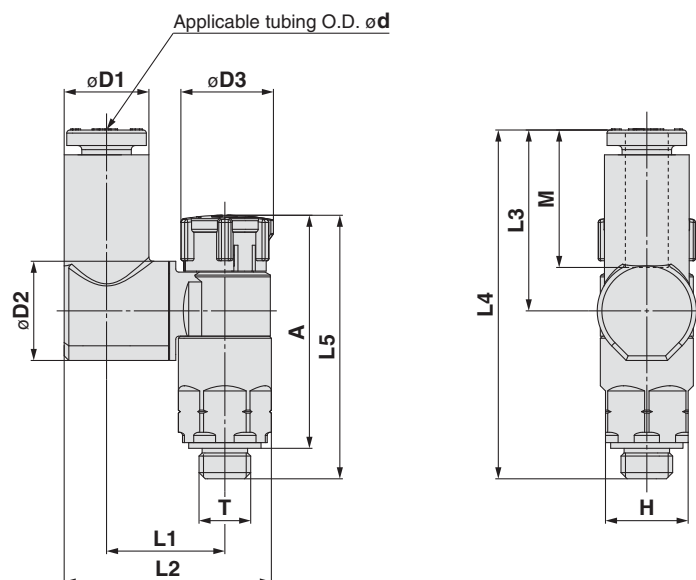
Model	d	T	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	Weight [g]	
									Unlocked	Locked	Unlocked	Locked			
AS12□1F-M5E-01A	1/8"	M5 x 0.8 10/32UNF	8	7.2	9.4	17.2	21.7	16.9	26.5	25.4	23.5	22.4	13.3	5	
AS12□1F-U10/32E-01A															
AS12□1F-M5E-03A	5/32"			8.2		18.6	23.1	16.5							6
AS12□1F-U10/32E-03A															
AS12□1F-M5E-07A	1/4"			11.2											
AS12□1F-U10/32E-07A															

Note 1) Reference dimensions

Note 2) Reference dimensions of threads after installation

Dimensions/ **Universal type**

Seal method: Gasket seal
For M5, 10-32UNF



Metric Size

Metric Size															[mm]					
Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5 Note 1)		A Note 2)		M	Weight [g]				
											Unlocked	Locked	Unlocked	Locked						
AS13□1F-M5E-23A	3.2	M5 x 0.8 10/32UNF	8	7.2	9.6	9	11.6	19.4	17.5	33.8	26.5	25.4	23.5	22.4	13.3	6				
AS13□1F-U10/32E-23A				11.5			19.8													
AS13□1F-M5E-04A	4							8.2									19.8			
AS13□1F-U10/32E-04A																				
AS13□1F-M5E-06A									6	10.4								20.9	20.4	36.6
AS13□1F-U10/32E-06A																				

Note 1) Reference dimensions

Note 2) Reference dimensions of threads after installation

Inch Size

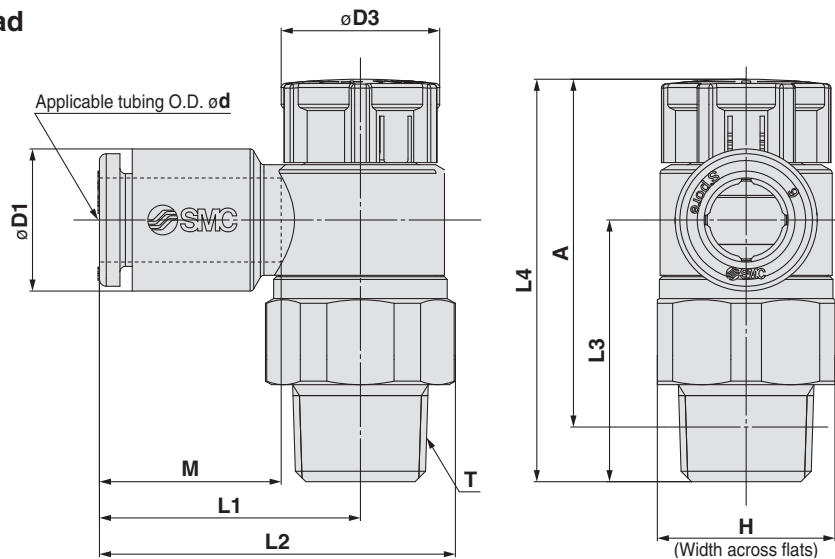
Inch Size															[mm]		
Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5 Note 1)		A Note 2)		M	Weight [g]	
											Unlocked	Locked	Unlocked	Locked			
AS13□1F-M5E-01A	1/8"	M5 x 0.8 10/32UNF	8	7.2	9.6	9	11.6	19.4	17.5	33.8	26.5	25.4	23.5	22.4	13.3	6	
AS13□1F-U10/32E-01A																	
AS13□1F-M5E-03A	5/32"			8.2			11.5	19.8									
AS13□1F-U10/32E-03A																	
AS13□1F-M5E-07A	1/4"			11.2				21.3	20.2	36.5							
AS13□1F-U10/32E-07A																	

Note 1) Reference dimensions

Note 2) Reference dimensions of threads after installation

Dimensions/ Elbow type

Seal method: Sealant
For R, NPT thread



Metric Size

Model	d	T	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	Weight [g]
									Unlocked	Locked	Unlocked	Locked		
AS22□1F-01-23(S)A	3.2	1/8	13 (12.7)	7.2	12	19.1	26.2	19.1	30.6	29.2	27.5	26.1	13.3	9 (9)
AS22□1F-01-04(S)A	4			8.2										10 (9)
AS22□1F-01-06(S)A	6			10.4										11 (10)
AS22□1F-01-08(S)A	8			13.2										12 (11)
AS22□1F-01-10(S)A	10	1/4	17 (17.5)	15.9	13	25.3	32.4	22.6	36.6	35	31.1	29.5	13.3	18 (19)
AS22□1F-02-23(S)A	3.2			7.2		20.9	30.2 (30.3)							19 (20)
AS22□1F-02-04(S)A	4			8.2		23.4	32.7 (32.8)							20 (21)
AS22□1F-02-06(S)A	6			10.4		23.9	33.2 (33.3)							21 (22)
AS22□1F-02-08(S)A	8	1/2	19	13.2	16.6	26.9	36.2 (36.3)	36.4	50	48.4	44.5	42.9	13.3	40 (40)
AS22□1F-02-10(S)A	10			15.9		21.8	32.1							41 (41)
AS32□1F-02-06(S)A	6			10.4		22.7	33							42 (42)
AS32□1F-02-08(S)A	8			13.2		26.7	37							43 (43)
AS32□1F-02-10(S)A	10	3/8	19	15.9	16.6	29.7	40	28.7	42.3	40.7	37.1	35.5	13.3	31 (32)
AS32□1F-02-12(S)A	12			18.5		30.8	43.7 (43.6)							32 (33)
AS32□1F-03-06(S)A	6			10.4		21.8	32.1							33 (34)
AS32□1F-03-08(S)A	8			13.2		22.7	33							34 (35)
AS32□1F-03-10(S)A	10	1/2	24 (23.8)	15.9	18.8	27.4	40.3 (40.2)	36.2	50.8	49.2	43.7	42.1	13.3	54 (53)
AS32□1F-03-12(S)A	12			18.5		30.8	43.7 (43.6)							55 (55)
AS42□1F-04-10(S)A	10			15.9		27.4	40.3 (40.2)							56 (56)
AS42□1F-04-12(S)A	12			18.5		30.8	43.7 (43.6)							57 (57)
AS42□1F-04-16(S)A	16	1/2	24 (23.8)	23.8	18.8	34.8	47.7 (47.6)	32.7	50.8	49.2	43.7	42.1	13.3	60 (59)
AS42□1F-04-18(S)A	18			26.8		37.8	50.7 (50.6)							61 (60)

Note 1) Reference dimensions Note 2) Reference dimensions of threads after installation Note 3) () are the dimensions of NPT thread.

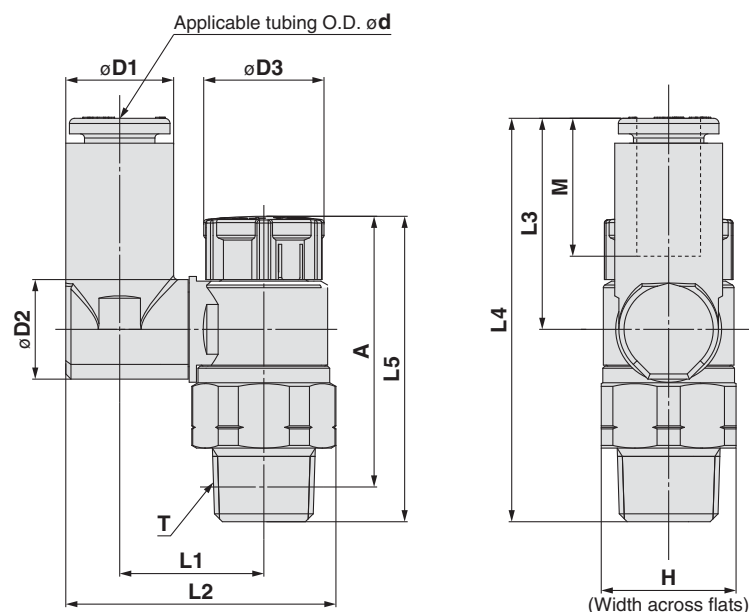
Inch Size

Model	d	T	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	Weight [g]
									Unlocked	Locked	Unlocked	Locked		
AS22□1F-01-01(S)A	1/8"	1/8	13 (12.7)	7.2	12	19.1	26.2	19.1	30.6	29.2	27.5	26.1	13.3	9 (9)
AS22□1F-01-03(S)A	5/32"			8.2		20.8	27.9							10 (9)
AS22□1F-01-07(S)A	1/4"			11.2		22.4	29.5							11 (10)
AS22□1F-01-09(S)A	5/16"			13.2		25.3	32.4							12 (11)
AS22□1F-02-01(S)A	1/8"	1/4	17 (17.5)	7.2	13	20.9	30.2 (30.3)	22.6	36.6	35	31.1	29.5	13.3	18 (19)
AS22□1F-02-03(S)A	5/32"			8.2		23.4	32.7 (32.8)							19 (19)
AS22□1F-02-07(S)A	1/4"			11.2		23.9	33.2 (33.3)							20 (21)
AS22□1F-02-09(S)A	5/16"			13.2		26.4	35.7 (35.8)							21 (22)
AS22□1F-02-11(S)A	3/8"	1/2	19	15.9	16.6	21.8	32.1	36.4	50	48.4	44.5	42.9	13.3	40 (40)
AS32□1F-02-07(S)A	1/4"			11.2		22.7	33							41 (41)
AS32□1F-02-09(S)A	5/16"			13.2		26.7	37							42 (42)
AS32□1F-02-11(S)A	3/8"			15.9		29.7	40							43 (43)
AS32□1F-03-07(S)A	1/4"	3/8	19	11.2	16.6	21.8	32.1	28.7	42.3	40.7	37.1	35.5	13.3	31 (32)
AS32□1F-03-09(S)A	5/16"			13.2		22.7	33							32 (33)
AS32□1F-03-11(S)A	3/8"			15.9		26.7	37							33 (34)
AS32□1F-03-13(S)A	7/16"			18.5		30.8	43.7 (43.6)							34 (35)
AS42□1F-04-11(S)A	3/8"	1/2	24 (23.8)	15.9	18.8	27.4	40.3 (40.2)	36.2	50.8	49.2	43.7	42.1	13.3	54 (53)
AS42□1F-04-13(S)A	1/2"			19.3		30.9	43.8 (43.7)							55 (55)

Note 1) Reference dimensions Note 2) Reference dimensions of threads after installation Note 3) () are the dimensions of NPT thread.

Dimensions/ **Universal type**

Seal method: Sealant
For R, NPT thread



Metric Size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5 Note 1)		A Note 2)		M	Weight [g]
											Unlocked	Locked	Unlocked	Locked		
AS23□1F-01-23(S)A	3.2	1/8	13 (12.7)	7.2	9.6	12	13.3	24	17.5	36	30.6	29.2	27.5	26.1	13.3	10 (10)
AS23□1F-01-04(S)A	4			8.2			13.9	25.1								11 (10)
AS23□1F-01-06(S)A	6			10.4			16.4	30.1								12 (12)
AS23□1F-01-08(S)A	8			13.2			19	34.9 (35)								13.3
AS23□1F-02-04(S)A	4	1/4	17 (17.5)	8.2	12.9	13	16.5	29.9 (30)	17.5	40.1	36.6	35	31.1	29.5	13.3	19 (20)
AS23□1F-02-06(S)A	6			11.2			19	33.8 (33.9)								21 (22)
AS23□1F-02-08(S)A	8			13.2			20.9	38.1 (38.2)								14.2
AS23□1F-02-10(S)A	10			15.9			23	42.5								22 (22)
AS33□1F-02-06(S)A	6	1/4	19	11.2	12.9	16.6	20.2	36	21.4	57.8	50	48.4	44.5	42.9	13.3	23 (24)
AS33□1F-02-08(S)A	8			13.2			23	37.1								42 (42)
AS33□1F-02-10(S)A	10			15.9			23	41.2								43 (43)
AS33□1F-02-12(S)A	12			18.5			23	42.5								46 (46)
AS33□1F-03-06(S)A	6	3/8	19	11.2	12.9	16.6	20.2	36	21.4	50.1	42.3	40.7	37.1	35.5	13.3	48 (48)
AS33□1F-03-08(S)A	8			13.2			23	37.1								34 (35)
AS33□1F-03-10(S)A	10			15.9			23	41.2								35 (36)
AS33□1F-03-12(S)A	12			18.5			23	42.5								38 (39)
AS43□1F-04-10(S)A	10	1/2	24 (23.8)	15.9	17.4	18.8	25.6	46.4 (46.3)	26.1	61.2	50.8	49.2	43.7	42.1	15.6	61 (59)
AS43□1F-04-12(S)A	12			18.5			26.2	48.3 (48.2)								64 (63)

Note 1) Reference dimensions Note 2) Reference dimensions of threads after installation Note 3) () are the dimensions of NPT thread.

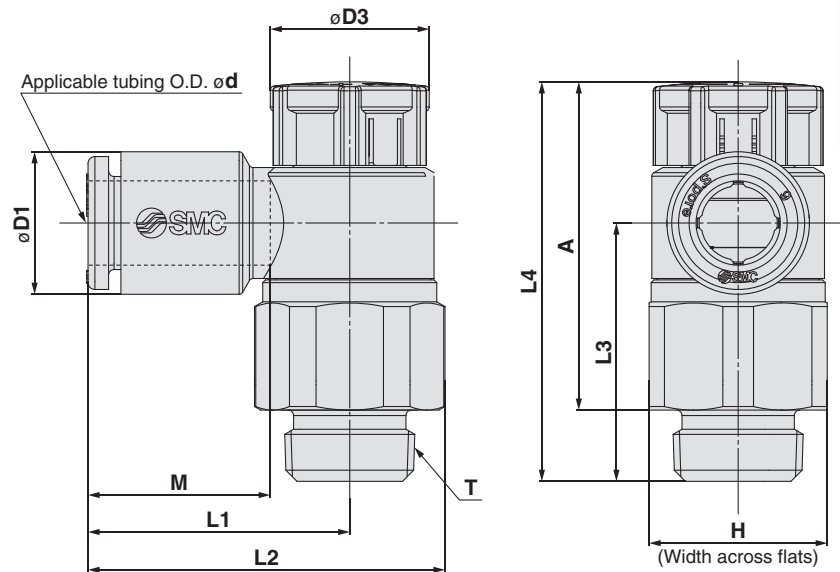
Inch Size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5 Note 1)		A Note 2)		M	Weight [g]
											Unlocked	Locked	Unlocked	Locked		
AS23□1F-01-01(S)A	1/8"	1/8	13 (12.7)	7.2	9.6	12	13.3	24	17.5	36	30.6	29.2	27.5	26.1	13.3	10 (10)
AS23□1F-01-03(S)A	5/32"			8.2			13.9	25.1								11 (10)
AS23□1F-01-07(S)A	1/4"			11.2			16.4	29.1								12 (12)
AS23□1F-01-09(S)A	5/16"			13.2			19	30.1								13.3
AS23□1F-02-03(S)A	5/32"	1/4	17 (17.5)	8.2	12.9	13	16.5	29.9 (30)	17.5	40.1	36.6	35	31.1	29.5	13.3	19 (20)
AS23□1F-02-07(S)A	1/4"			11.2			19	33.8 (33.9)								21 (22)
AS23□1F-02-09(S)A	5/16"			13.2			20.9	34.9 (35)								14.2
AS23□1F-02-11(S)A	3/8"			15.9			23	38.1 (38.2)								22 (22)
AS33□1F-02-07(S)A	1/4"	3/8	19	11.2	12.9	16.6	20.2	36	21.4	57.8	50	48.4	44.5	42.9	13.3	23 (24)
AS33□1F-02-09(S)A	5/16"			13.2			23	37.1								42 (42)
AS33□1F-02-11(S)A	3/8"			15.9			23	41.2								43 (43)
AS33□1F-03-07(S)A	1/4"			11.2			23	42.5								46 (46)
AS33□1F-03-09(S)A	5/16"	3/8	19	13.2	12.9	16.6	20.2	37.1	21.4	52.2	42.3	40.7	37.1	35.5	13.3	34 (35)
AS33□1F-03-11(S)A	3/8"			15.9			23	41.2								35 (36)
AS43□1F-04-11(S)A	3/8"	1/2	24 (23.8)	15.9	17.4	18.8	25.6	46.4 (46.3)	26.1	61.2	50.8	49.2	43.7	42.1	15.6	61 (59)
AS43□1F-04-13(S)A	1/2"			18.5			26.2	48.3 (48.2)								64 (63)

Note 1) Reference dimensions Note 2) Reference dimensions of threads after installation Note 3) () are the dimensions of NPT thread.

Dimensions/ **Elbow type**

Seal method: Face seal
For G thread



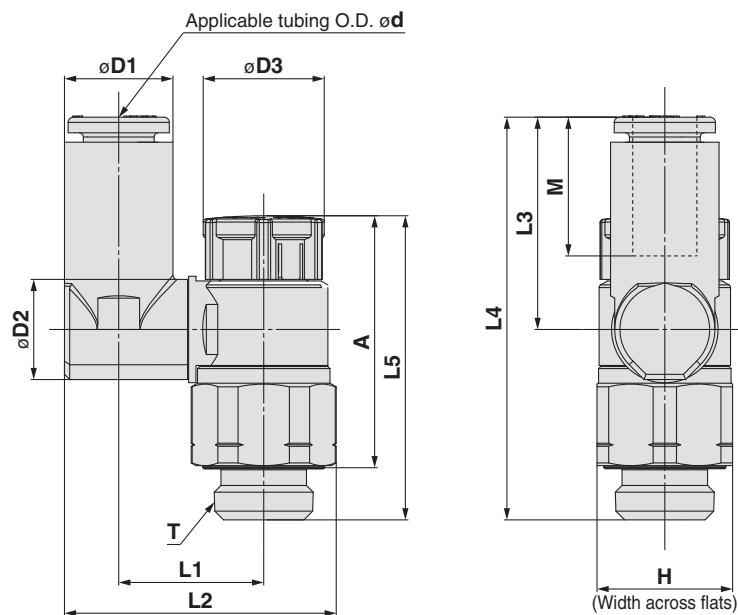
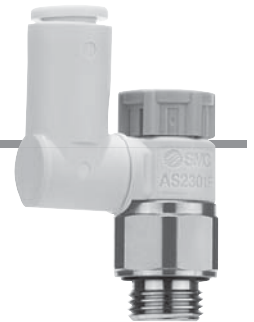
Metric Size

[mm]

Model	d	T	H	D1	D3	L1	L2	L3	L4		A		M	Weight [g]
									Unlocked	Locked	Unlocked	Locked		
AS22□1F-G01-23A	3.2	1/8	13	7.2	12	19.1	26.2	18.8	30.3	28.9	24.8	23.4	13.3	10
AS22□1F-G01-04A	4			8.2										
AS22□1F-G01-06A	6			10.4										
AS22□1F-G01-08A	8			13.2										
AS22□1F-G01-10A	10	1/4	17	15.9	13	25.3	32.4	22.6	36.6	35	30.1	28.5	15.6	12
AS22□1F-G02-23A	3.2			7.2		20.9	30.2						13.3	21
AS22□1F-G02-04A	4			8.2		23.4	32.7							
AS22□1F-G02-06A	6			10.4		23.9	33.2							
AS22□1F-G02-08A	8			13.2		26.9	36.2							
AS22□1F-G02-10A	10	1/4	21	15.9	16.6	26.7	37.9	36.4	50	48.4	43.5	41.9	15.6	23
AS32□1F-G02-06A	6			10.4		21.8	33						13.3	50
AS32□1F-G02-08A	8			13.2		22.7	33.9						14.2	
AS32□1F-G02-10A	10			15.9		26.7	37.9						15.6	
AS32□1F-G02-12A	12	3/8	21	18.5	16.6	29.7	40.9	28.7	42.3	40.7	34.8	33.2	17	53
AS32□1F-G03-06A	6			10.4		21.8	33						13.3	38
AS32□1F-G03-08A	8			13.2		22.7	33.9						14.2	39
AS32□1F-G03-10A	10			15.9		26.7	37.9						15.6	40
AS32□1F-G03-12A	12			18.5		29.7	40.9						17	42
AS42□1F-G04-10A	10	1/2	27	15.9	18.8	27.4	41.8	36.2	50.8	49.2	41.8	40.2	15.6	72
AS42□1F-G04-12A	12			18.5		30.8	45.2						17	74
AS42□1F-G04-16A	16			23.8		34.8	49.2						20.6	78

Dimensions/ Universal type

Seal method: Face seal
For G thread



Metric Size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A		M	Weight [g]
											Unlocked	Locked	Unlocked	Locked		
AS23□1F-G01-23A	3.2	1/8	13	7.2	9.6	12	13.3	24.0	17.5	35.7	30.3	28.9	24.8	23.4	13.3	10
AS23□1F-G01-04A	4			8.2			13.9	25.1								11
AS23□1F-G01-06A	6			10.4				26.2								11
AS23□1F-G01-08A	8	1/4	17	13.2	10.2	13	16.4	30.1	21.5	39.7	36.6	35	30.1	28.5	14.2	12
AS23□1F-G02-04A	4			8.2			16.5	29.9							13.3	22
AS23□1F-G02-06A	6			10.4			19	33.8								24
AS23□1F-G02-08A	8			13.2				34.9								25
AS23□1F-G02-10A	10			15.9			20.9	38.1							15.6	26
AS33□1F-G02-06A	6	1/4	21	10.4	12.9	16.6	20.2	36.6	21.4	57.8	50	48.4	43.5	41.9	13.3	51
AS33□1F-G02-08A	8			13.2				38.0							14.2	52
AS33□1F-G02-10A	10			15.9			23	42.2							15.6	55
AS33□1F-G02-12A	12			18.5	17.4			43.5							17	57
AS33□1F-G03-06A	6	3/8	21	10.4	12.9	16.6	20.2	36.6	21.4	50.1	42.3	40.7	34.8	33.2	13.3	41
AS33□1F-G03-08A	8			13.2				38.0							14.2	42
AS33□1F-G03-10A	10			15.9			23	42.2							15.6	46
AS33□1F-G03-12A	12			18.5	17.4			43.5							17	47
AS43□1F-G04-10A	10	1/2	27	15.9	17.4	18.8	25.6	47.9	26.1	61.2	50.8	49.2	41.8	40.2	15.6	78
AS43□1F-G04-12A	12			18.5	21		26.2	49.8							17	82