

Series 10-AS-FS

Push-lock Type

RoHS

Speed Controller with Indicator
Elbow Type/Universal Type

How to Order



Width across flats (H)

E	8 mm
Nil	9 mm

Type

2	Elbow
3	Universal

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 the table below.

Metric size and inch size types can be visually identified by color of the release button.

Metric size: Light gray

Inch size: Orange

Note 2) Use ø1/8" tube.

Body size 1

10 - AS 1 2 0 1 F S - M5 E - 06

Body size 2/3/4

10 - AS 2 2 0 1 F S - 01 - 06 S

Clean series

Body size

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

With indicator

Indicator window direction

Control type (Note)

0	Meter-out
1	Meter-in

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

Nil	0°	Indicator window	Indicator window direction	
			Elbow	Universal
1	180°	Indicator window	•	•
2	90°	Indicator window	•	—
3	270°	Indicator window	•	—

Note) Orientation of indicator direction is fixed when manufacturing, and cannot be changed by the user. In addition, the universal type is only available with 180° setting.

Applicable tubing O.D. (Note 1)

Metric size	Inch size
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 the table below.

Note 2) Use ø1/8" tube.

Port size

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

Seal method

Nil	Without sealant
S	With sealant

Note) Face seal type is used for the G thread type. Select "Nil/Without sealant".
Example) 10-AS201FS-G01-06

Thread type

Nil	R
N	NPT
G	G

Model

Model	Port size	Seal method	Applicable tubing O.D.														Note 3) Max. number of rotations
Elbow 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"	
10-AS1□□1FS□-M5□	M5 x 0.8	Gasket seal	● (Note 4)	●	●	●	●					●	●	●			8
10-AS1□□1FS□-U10/32□	10-32UNF		● (Note 4)	●	●	●					●	●	●				
10-AS2□□1FS□-□01	1/8	Sealant (Note 1)	●	●	●	●	● (Note 4)			●	●	●	●				10
10-AS2□□1FS□-□02	1/4		● (Note 4)	●	●	●	●			● (Note 4)	●	●	●	●	●		
10-AS3□□1FS□-□02	1/4					●	●	●				●	●	●	●	●	
10-AS3□□1FS□-□03	3/8					●	●	●					●	●	●		
10-AS4□□1FS□-□04	1/2								●	●	● (Note 4)				●	●	
10-AS2□□1FS□-G01	1/8	Face seal		●	●	●	●	● (Note 4)									10
10-AS2□□1FS□-G02	1/4		● (Note 4)	●	●	●	●										
10-AS3□□1FS□-G02	1/4					●	●	●	●								
10-AS3□□1FS□-G03	3/8					●	●	●	●								
10-AS4□□1FS□-G04	1/2							●	●	● (Note 4)							

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

Note 2) Only polyurethane tubing is applicable for ø2.

Note 3) There are differences in actual rate as by the indicator window over the maximum number of rotations depending on the individual product.

Note 4) Universal type is not available.

Specifications

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	Polyurethane ^{Note 1)}
Option ^{Note 2)}	With seal
Grease	Fluorine grease
Cleanliness class (ISO class)	Class 5

Note 1) Use caution at the max. operating pressure when using polyurethane tubing. (Refer to the **WEB catalog** for details.)

Note 2) M5 type port is not available with seal.

Flow Rate and Sonic Conductance

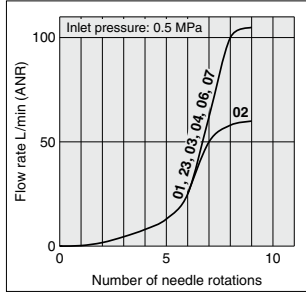
Model		10-AS1□□1FS-M5□			10-AS2□□1FS-01		10-AS2□□1FS-02				10-AS3□□1FS			10-AS4□□1FS	
Tubing O.D.	Metric size	ø2	ø3.2 ø4 ø6	ø3.2	ø4	ø6 ø8 ø10	ø3.2	ø4	ø6	ø8 ø10	ø6	ø8	ø10 ø12	ø10	ø12 ø16
	Inch size	—	ø1/8" ø1/4" ø5/32"	ø1/8"	ø5/32"	ø1/4" ø5/16"	ø1/8"	ø5/32"	—	ø1/4" ø5/16" ø3/8"	ø1/4"	ø5/16"	ø3/8"	ø3/8"	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.

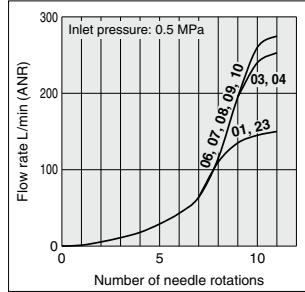
Needle Valve/Flow Rate Characteristics

10-AS1□□1FS□-M5□, 10-AS1□□11FS□-M5□

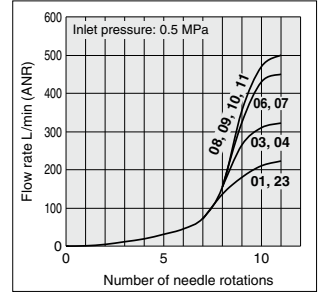


Note) -U10/32 has the same specification as M5.

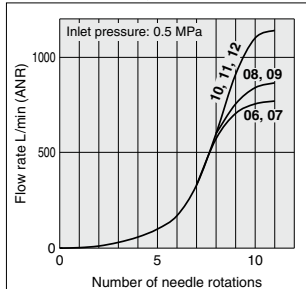
10-AS2□□□1FS□-01, 10-AS2□□□11FS□-01



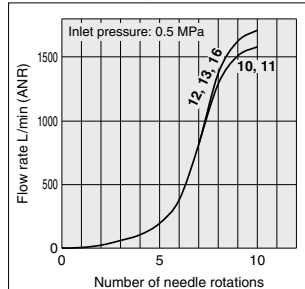
10-AS2□□□1FS□-02, 10-AS2□□□11FS□-02



10-AS3□□□1FS□, 10-AS3□□□11FS□



10-AS4□□□1FS□, 10-AS4□□□11FS□

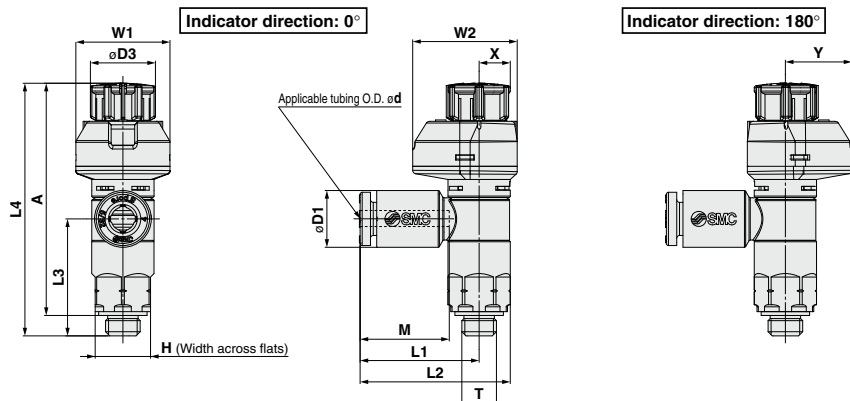


Note) The numbers above the flow rate characteristic curves in the charts show the applicable tubing outside diameter as defined by the product number.

Dimensions: Elbow Type

Seal method: Gasket seal

For M5, 10-32UNF



Metric Size

Metric Size																	(mm)										
Model	d	T	H Note 1)	D1	D3	L1	L2	L3	L4 Note 2)		A Note 3)		M	W1	W2	X	Y	Weight (g)									
10-AS12□1FS□-M5E-02	2	M5 x 0.8 10/32UNF	8 (9)	5.8	9.4	15.8	20.3	16.9	39	36.5	35	33.5	11.9	13.6	15.1	5.5	9.6	7									
10-AS12□1FS□-U10/32E-02				7.2		17.2	21.7																				
10-AS12□1FS□-M5E-23	3.2			7.2		17.2	21.7																				
10-AS12□1FS□-U10/32E-23				7.2		17.2	21.7																				
10-AS12□1FS□-M5E-04	4			8.2		18.6	23.1	16.5					13.3					8									
10-AS12□1FS□-U10/32E-04				8.2		18.6	23.1																				
10-AS12□1FS□-M5E-06	6			10.4		18.6	23.1	16.5										8									
10-AS12□1FS□-U10/32E-06				10.4		18.6	23.1																				

Note 1) The value in () indicates that the dimension for the width across flats is 9 mm.

Note 2) Reference dimensions

Note 3) Reference dimensions of threads after installation

Inch Size

Inch Size																	(mm)		
Model	d	T	H Note 1)	D1	D3	L1	L2	L3	L4 Note 2)		A Note 3)		M	W1	W2	X	Y	Weight (g)	
10-AS12□1FS□-M5E-01	1/8"	M5 x 0.8 10/32UNF	8 (9)	7.2	9.4	17.2	21.7	16.9	39.0	36.5	35	33.5	13.3	13.6	15.1	5.5	9.6	7	
10-AS12□1FS□-U10/32E-01				7.2															
10-AS12□1FS□-M5E-03	5/32"			8.2		18.6	23.1	16.5											8
10-AS12□1FS□-U10/32E-03				8.2															
10-AS12□1FS□-M5E-07	1/4"			11.2		18.6	23.1	16.5											
10-AS12□1FS□-U10/32E-07				11.2															

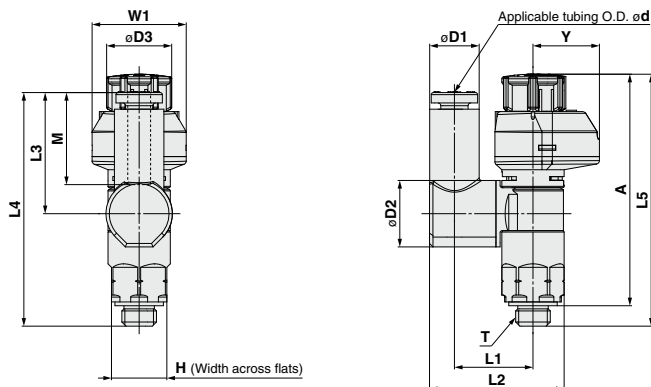
Note 1) The value in () indicates that the dimension for the width across flats is 9 mm.

Note 2) Reference dimensions

Note 3) 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 ^{Note 1)}	D1	D2	D3	L1	L2	L3	L4	L5 ^{Note 2)}		A ^{Note 3)}		M	W1	Y	Weight [g]											
											Unlocked	Locked	Unlocked	Locked															
10-AS13□1FS1-M5E-23	3.2	M5 x 0.8 10/32UNF	8 (9)	7.2	9.6	9.4	11.6	19.4	17.5	33.8	39	36.5	35	33.5	13.3	13.6	9.6	7											
10-AS13□1FS1-U10-32/23																													
10-AS13□1FS1-M5E-04	4						8.2												11.5										8
10-AS13□1FS1-U10/32-04																													
10-AS13□1FS1-M5E-06	6																			20.9	20.4	36.6							
10-AS13□1FS1-U10/32-06																													

Note 1) The value in () indicates that the dimension for the width across flats is 9 mm.

Note 2) Reference dimensions

Note 3) Reference dimensions of threads after installation

Inch Size

Inch Size																	[mm]					
Model	d	T	H Note 1)	D1	D2	D3	L1	L2	L3	L4	L5 Note 2)		A Note 3)		M	W1	Y	Weight [g]				
10-AS13□1FS1-M5E-01	1/8	M5 x 0.8 10/32UNF	8 (9)	7.2	9.4	9	17.2	19.8	17.5	33.8	39	36.5	35	33.5	13.3	13.6	9.6	7				
10-AS13□1FS1-U10/32-01				8.2																		
10-AS13□1FS1-M5E-03	5/32			11.2														18.6	20.9	20.4	36.6	8
10-AS13□1FS1-U10/32-03																						
10-AS13□1FS1-M5E-07	1/4			11.2	18.6	20.9	20.4	36.6	8													
10-AS13□1FS1-U10/32-07																						

Note 1) The value in () indicates that the dimension for the width across flats is 9 mm.

Note 2) Reference dimensions

Note 3) Reference dimensions of threads after installation

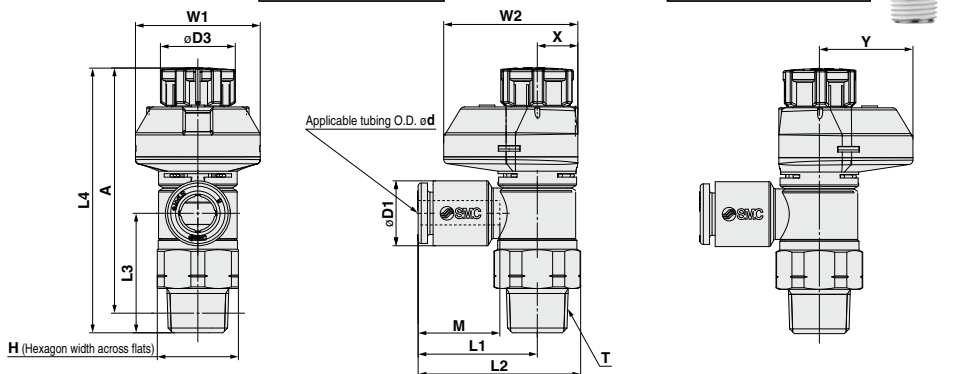
Dimensions: Elbow Type

Seal method: Sealant

For R, NPT thread

Indicator direction: 0°

Indicator direction: 180°



Metric Size

Model	d	T (R, NPT)	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	W1	W2	X	Y	Weight (g)
									Unlocked	Locked	Unlocked	Locked						
10-AS22□1FS□-01-23(S)	3.2	1/8	13 (12.7)	7.2	12	19.1	26.1 (26)	19.1	43.9	42.4	40.8	39.3	13.3	20	21.5	6.5	15	13 (13)
10-AS22□1FS□-01-04(S)	4			8.2														14 (13)
10-AS22□1FS□-01-06(S)	6			10.4														15 (14)
10-AS22□1FS□-01-08(S)	8			13.2														16 (15)
10-AS22□1FS□-01-10(S)	10	1/4	17 (17.5)	15.9	13	20.9	30 (30.3)	22.6	49.7	48.3	44.2	42.8	13.3	21.5	24	7.8	16.2	23 (24)
10-AS22□1FS□-02-04(S)	4			8.2														24 (25)
10-AS22□1FS□-02-06(S)	6			10.4														25 (26)
10-AS22□1FS□-02-08(S)	8			13.2														24 (25)
10-AS22□1FS□-02-10(S)	10	3/8	19	15.9	16.6	21.8	32.1	36.4	63.1	61.7	57.9	56.5	13.3	24.5	28.5	9.3	19.2	47 (48)
10-AS32□1FS□-02-06(S)	6			10.4														38 (39)
10-AS32□1FS□-02-08(S)	8			13.2														50 (51)
10-AS32□1FS□-02-10(S)	10			15.9														38 (39)
10-AS32□1FS□-03-06(S)	6	1/2	24 (23.8)	10.4	18.8	21.8	32.1	28.7	64.1	62.5	57	55.4	13.3	26	29	10	19	64 (63)
10-AS32□1FS□-03-08(S)	8			13.2														68 (67)
10-AS32□1FS□-03-10(S)	10			15.9														39 (40)
10-AS32□1FS□-03-12(S)	12			18.5														41 (42)
10-AS42□1FS□-04-10(S)	10	1/2	24 (23.8)	15.9	18.8	27.4	40.3 (40.2)	36.2	64.1	62.5	57	55.4	15.6	26	29	10	19	62 (61)
10-AS42□1FS□-04-12(S)	12			18.5														64 (63)
10-AS42□1FS□-04-14(S)	14			20.9														68 (67)
10-AS42□1FS□-04-16(S)	16			23.8														68 (67)

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 (R, NPT)	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	W1	W2	X	Y	Weight (g)
									Unlocked	Locked	Unlocked	Locked						
10-AS22□1FS□-01-01(S)	1/8"	1/8	13 (12.7)	7.2	12	19.1	26.1 (26)	19.1	43.8	42.4	40.7	39.3	13.3	20	21.5	6.5	15	13 (13)
10-AS22□1FS□-01-03(S)	5/32"			8.2														14 (13)
10-AS22□1FS□-01-07(S)	1/4"			11.2														15 (14)
10-AS22□1FS□-01-09(S)	5/16"			13.2														15 (14)
10-AS22□1FS□-02-01(S)	1/8"	1/4	17 (17.5)	7.2	13	20.9	30 (30.3)	22.6	49.7	48.3	44.2	42.8	13.3	21.5	24	7.8	16.2	23 (24)
10-AS22□1FS□-02-03(S)	5/32"			8.2														24 (24)
10-AS22□1FS□-02-07(S)	1/4"			11.2														24 (25)
10-AS22□1FS□-02-09(S)	5/16"			13.2														25 (26)
10-AS22□1FS□-02-11(S)	3/8"	3/8	19	15.5	16.6	21.8	32.1	28.7	55.4	54	50.2	48.8	13.3	24.5	28.5	9.3	19.2	47 (48)
10-AS32□1FS□-02-07(S)	1/4"			11.2														48 (49)
10-AS32□1FS□-02-09(S)	5/16"			13.2														38 (39)
10-AS32□1FS□-02-11(S)	3/8"			15.5														39 (40)
10-AS32□1FS□-03-07(S)	1/4"	1/2	24 (23.8)	11.2	18.8	21.8	32.1	28.7	64.1	62.5	57	55.4	13.3	26	29	10	19	62 (61)
10-AS32□1FS□-03-09(S)	5/16"			13.2														64 (63)
10-AS32□1FS□-03-11(S)	3/8"			15.5														64 (63)
10-AS42□1FS□-04-11(S)	3/8"			18.5														64 (63)
10-AS42□1FS□-04-13(S)	1/2"	1/2	24 (23.8)	20.9	19.3	27.4	40.3 (40.2)	36.2	64.1	62.5	57	55.4	15.6	26	29	10	19	64 (63)
10-AS42□1FS□-04-15(S)	5/8"			23.8														64 (63)
10-AS42□1FS□-04-17(S)	3/4"			26.7														64 (63)
10-AS42□1FS□-04-19(S)	7/8"			30.3														64 (63)

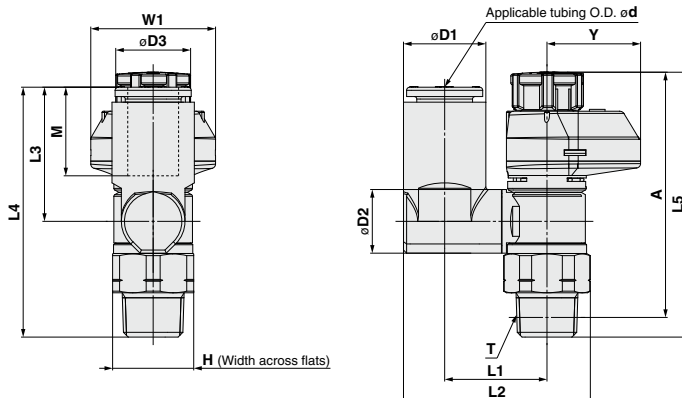
Note 1) Reference dimensions

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

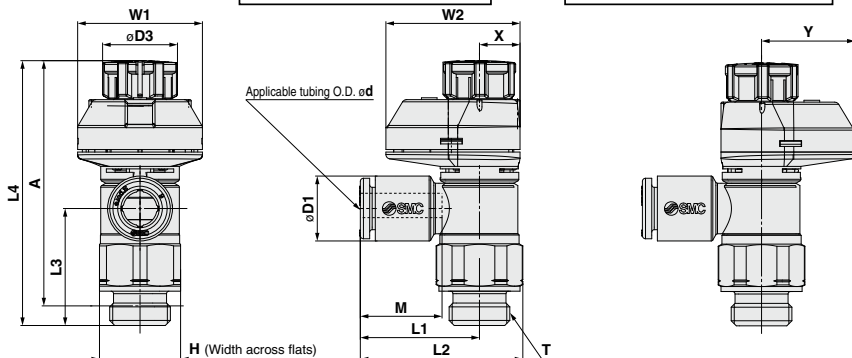
Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A		M	W1	Y	Weight [g]
											Unlocked	Locked	Unlocked	Locked				
10-AS23□1FS1-01-23 (S)	3.2	1/8	13 (12.7)	7.2	9.6	12	13.3	24	17.5	36	43.9	42.4	40.8	39.3	13.3	20	15	14
10-AS23□1FS1-01-04 (S)	4			8.2			13.9	25.1	20.4	38.8								15
10-AS23□1FS1-01-06 (S)	6			10.4			16.4	30.1	21.5	40								16
10-AS23□1FS1-01-08 (S)	8			13.2			16.5	29.9	17.5	40.1								24
10-AS23□1FS1-02-04 (S)	4	1/4	17 (17.5)	8.2	12.9	13	19	33.8	21.4	43.9	49.7	48.3	44.2	42.8	13.3	21.5	16.2	26
10-AS23□1FS1-02-06 (S)	6			11.2			34.9	23.5	46									27
10-AS23□1FS1-02-08 (S)	8			13.2			20.9	38.1	24.7	47.3								28
10-AS23□1FS1-02-10 (S)	10			15.9			36	21.4	57.8									49
10-AS33□1FS1-02-06 (S)	6	1/4	19	11.2	12.9	16.6	20.2	37.1	23.5	59.9	63.1	61.7	57.9	56.5	13.3	24.5	19.2	50
10-AS33□1FS1-02-08 (S)	8			13.2			23	41.2	26.1	62.5								53
10-AS33□1FS1-02-10 (S)	10			15.9			23	41.2	26.1	62.5								55
10-AS33□1FS1-02-12 (S)	12			18.5			23	42.5	28.3	64.7								55
10-AS33□1FS1-03-06 (S)	6	3/8	19	10.4	12.9	16.6	20.2	36	21.4	50.1	55.4	54	50.2	48.8	13.3	24.5	19.2	41
10-AS33□1FS1-03-08 (S)	8			13.2			23	37.1	23.5	52.2								42
10-AS33□1FS1-03-10 (S)	10			15.9			23	41.2	26.1	54.8								45
10-AS33□1FS1-03-12 (S)	12			18.5			23	42.5	28.3	57								47
10-AS43□1FS1-04-10 (S)	10	1/2	24 (23.8)	15.9	17.4	18.8	25.6	46.4	26.1	61.2	64.1	62.5	57	55.4	15.6	26	19	69
10-AS43□1FS1-04-12 (S)	12			18.5	21		26.2	48.3	28.3	63.4								72

Inch Size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A		M	W1	Y	Weight [g]
											Unlocked	Locked	Unlocked	Locked				
10-AS23□1FS1-01-01 (S)	1/8	1/8	13 (12.7)	7.2	9.6	12	13.3	24	17.5	36	43.9	42.4	40.8	39.3	13.3	20	15	14
10-AS23□1FS1-01-03 (S)	5/32			8.2			13.9	25.1	20.4	38.7								15
10-AS23□1FS1-01-07 (S)	1/4			11.2			16.4	29.1	20.2	40								16
10-AS23□1FS1-01-09 (S)	5/16			13.2			16.5	29.9	17.5	40.1								24
10-AS23□1FS1-02-03 (S)	5/32	1/4	17 (17.5)	8.2	12.9	13	19	33.8	21.4	43.9	49.7	48.3	44.2	42.8	13.3	21.5	16.2	26
10-AS23□1FS1-02-07 (S)	1/4			11.2			34.9	23.5	46									27
10-AS23□1FS1-02-09 (S)	5/16			13.2			20.9	38.1	24.7	47.3								28
10-AS23□1FS1-02-11 (S)	3/8			15.9			36	21.4	57.8									49
10-AS33□1FS1-02-07 (S)	1/4	1/4	19	11.2	12.9	16.6	20.2	37.1	23.5	59.9	63.1	61.7	57.9	56.5	13.3	24.5	19.2	50
10-AS33□1FS1-02-09 (S)	5/16			13.2			23	41.2	26.1	62.5								53
10-AS33□1FS1-02-11 (S)	3/8			15.9			23	41.2	26.1	62.5								53
10-AS33□1FS1-03-07 (S)	1/4			11.2			20.2	36	21.4	50.1								41
10-AS33□1FS1-03-09 (S)	5/16	3/8	19	13.2	12.9	16.6	23	37.1	23.5	52.2	55.4	54	50.2	48.8	13.3	24.5	19.2	42
10-AS33□1FS1-03-11 (S)	3/8			15.9			23	41.2	26.1	54.8								45
10-AS43□1FS1-04-11 (S)	3/8			15.9			25.6	46.4	26.1	61.2								69
10-AS43□1FS1-04-13 (S)	1/2			18.5	21		26.2	48.3	28.3	63.4								72

Dimensions: Elbow Type

Seal method: Face seal
For G thread



Metric Size

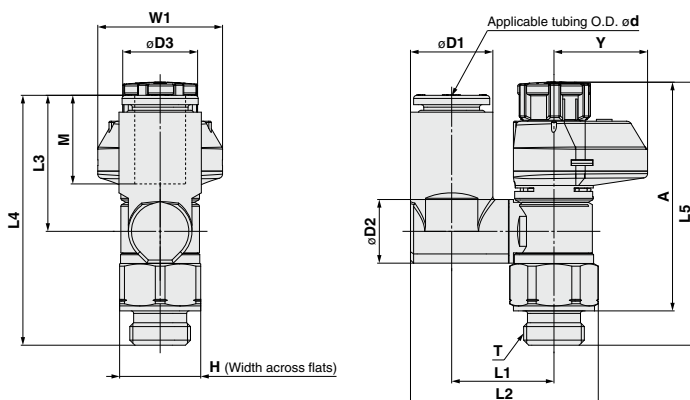
Model	d	T	H	D1	D3	L1	L2	L3	L4 Note 1)		A Note 2)		M	W1	W2	X	Y	Weight [g]
									Unlocked	Locked	Unlocked	Locked						
10-AS22□1FS□-G01-23	3.2	1/8	13	7.2	12	19.1	26.2	18.8	43.8	42.4	38.3	36.9	13.3	20	21.5	6.5	15	14
10-AS22□1FS□-G01-04	4			8.2														
10-AS22□1FS□-G01-06	6			10.4		22.4	29.5						14.2					15
10-AS22□1FS□-G01-08	8			13.2		25.3	32.4						15.6					16
10-AS22□1FS□-G01-10	10	1/4	17	15.9	13	20.9	30.2	22.6	49.7	48.3	43.2	41.8	13.3	21.5	24	7.8	16.2	26
10-AS22□1FS□-G02-23	3.2			7.2		23.4	32.7											
10-AS22□1FS□-G02-04	4			8.2		23.9	33.2						14.2					27
10-AS22□1FS□-G02-06	6			10.4		26.9	36.2						15.6					28
10-AS22□1FS□-G02-08	8	1/4	21	13.2	16.6	21.8	33	36.4	63.1	61.7	54.6	53.2	13.3	24.5	28.5	9.3	19.2	55
10-AS22□1FS□-G02-10	10			15.9		22.7	33.9						14.2					57
10-AS32□1FS□-G02-06	6			10.4		26.7	37.9	35.7					15.6					59
10-AS32□1FS□-G02-12	12			18.5		29.7	40.9	34.5					17					45
10-AS32□1FS□-G03-06	6	3/8	21	10.4	16.6	21.8	33	28.7	55.4	54	47.9	46.5	13.3	24.5	28.5	9.3	19.2	46
10-AS32□1FS□-G03-08	8			13.2		22.7	33.9	28					14.2					47
10-AS32□1FS□-G03-10	10			15.9		26.7	37.9	28					15.6					49
10-AS32□1FS□-G03-12	12			18.5		29.7	40.9	26.8					17					80
10-AS42□1FS□-G04-10	10	1/2	27	15.9	18.8	27.4	41.8	36.2	64.1	62.5	55.1	53.5	15.6	26	29	10	19	82
10-AS42□1FS□-G04-12	12			18.5		30.8	45.2	35.1					17					86
10-AS42□1FS□-G04-16	16			23.8		34.8	49.2	32.7					20.6					

Note 1) Reference dimensions

Note 2) Reference dimensions of threads after installation

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	W1	Y	Weight [g]
											Unlocked	Locked	Unlocked	Locked				
10-AS23□1FS1-G01-23	3.2	1/8	13	7.2	9.6	12	13.2	24	17.5	35.7	43.8	42.4	38.3	36.9	13.3	20	15	14
10-AS23□1FS1-G01-04	4			8.2			13.9	25.1	20.4	38.5								15
10-AS23□1FS1-G01-06	6			10.4			16.4	30.1	21.5	39.7								15
10-AS23□1FS1-G01-08	8			13.2			16.5	29.9	17.5	40.1								16
10-AS23□1FS1-G02-04	4	1/4	17	8.2	12.9	13	19	33.8	21.4	43.9	49.7	48.3	43.2	41.8	13.3	21.5	16.2	26
10-AS23□1FS1-G02-06	6			10.4			19	34.9	23.5	46								28
10-AS23□1FS1-G02-08	8			13.2			20.9	38.1	24.7	47.3								29
10-AS23□1FS1-G02-10	10			15.9			20.2	36.1	21.4	57.8								32
10-AS33□1FS1-G02-06	6	1/4	21	10.4	12.9	16.6	23	38	23.5	59.9	63.1	61.7	54.6	53.2	13.3	24.5	19.2	55
10-AS33□1FS1-G02-08	8			13.2			23	42.2	26.1	58								56
10-AS33□1FS1-G02-10	10			15.9			23	43.5	28.3	59.9								59
10-AS33□1FS1-G02-12	12			18.5			23	43.5	28.3	52.2								61
10-AS33□1FS1-G03-06	6	3/8	21	10.4	12.9	16.6	20.2	36.6	21.4	50.1	55.4	54	47.9	46.5	13.3	24.5	19.2	45
10-AS33□1FS1-G03-08	8			13.2			23	38	23.5	52.2								46
10-AS33□1FS1-G03-10	10			15.9			23	42.2	28.1	50.3								47
10-AS33□1FS1-G03-12	12			18.5			23	43.5	28.3	52.2								49
10-AS43□1FS1-G04-10	10	1/2	27	15.9	17.4	18.8	25.6	47.9	26.1	61.2	64.1	62.5	55.1	53.5	15.6	26	19	80
10-AS43□1FS1-G04-12	12			18.5	21		26.2	49.8	28.3	63.4					17			82