

# Speed Controller with One-touch Fitting Stainless Steel Series

## Elbow Type/Universal Type

# Series AS-FG

RoHS

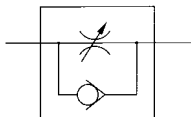


Elbow type



Universal type

JIS symbol



Flow direction symbols on body

	Meter-out type	Meter-in type
Symbol		
JIS symbol		

## Models

Elbow type	Universal type	Port size	Applicable tube outside diameter														Applicable cylinder bore size (mm)
			Metric size							Inch size							
			3.2	4	6	8	10	12	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"		
AS12□1FG-M5	AS13□1FG-M5	M5	●	●	●											6, 10, 16, 20	
AS22□1FG-01	AS23□1FG-01	R(PT) 1/8	●	●	●	●	●*									20, 25, 32	
AS22□1FG-02	AS23□1FG-02	R(PT) 1/4		●	●	●	●									20, 25, 32, 40	
AS32□1FG-02	AS33□1FG-02	R(PT) 1/4			●	●	●	●								40, 50, 63	
AS32□1FG-03	AS33□1FG-03	R(PT) 3/8			●	●	●	●								40, 50, 63	
AS42□1FG-04	AS43□1FG-04	R(PT) 1/2					●	●								63, 80, 100	
AS12□1FG-U10/32	AS13□1FG-U10/32	10-32UNF							●	●	●	●				6, 10, 16, 20	
AS22□1FG-N01	AS23□1FG-N01	NPT 1/8							●	●	●	●	●			20, 25, 32	
AS22□1FG-N02	AS23□1FG-N02	NPT 1/4								●	●	●	●	●		20, 25, 32, 40	
AS32□1FG-N02	AS33□1FG-N02	NPT 1/4										●	●	●		40, 50, 63	
AS32□1FG-N03	AS33□1FG-N03	NPT 3/8										●	●	●		40, 50, 63	
AS42□1FG-N04	AS43□1FG-N04	NPT 1/2												●	●	63, 80, 100	

Note 1) The meter-out and meter-in types can be visually determined by the flow direction symbol on the resin body.  
Note 2) \* Elbow type only

## Specifications

Proof pressure	1.5MPa
Maximum operating pressure	1MPa
Minimum operating pressure	0.1MPa
Ambient & fluid temperature	-5 to 60°C (with no freezing)
Number of needle revolutions	10 revolutions (8 revolutions Note 1))
Applicable tube material Note 2)	Nylon, Soft nylon, Polyurethane, Soft polyurethane

Note 1) For types AS12□1FG and AS13□1FG

Note 2) Use caution regarding the maximum operating pressure with soft nylon, polyurethane and soft polyurethane.  
(For details, refer to CAT.E501-B "Air Fittings and Tubing" pages 7-146 through 7-147.)

## Flow Rate and Effective Area

Model		AS12□1FG AS13□1FG	AS22□1FG-□01 AS23□1FG-□01	AS22□1FG-□02 AS23□1FG-□02			AS32□1FG AS33□1FG			AS42□1FG AS43□1FG		
Tube O.D.	Metric size	ø3.2 ø4 ø6	ø3.2 ø4 ø6 ø8 ø10	ø6	ø4	ø6	ø8 ø10	ø6	ø8	ø10 ø12	ø10	ø12
	Inch size	ø1/8" ø5/32" ø3/16" ø1/4"	ø1/8" ø5/32" ø1/4" ø5/16"	ø3/16"	ø5/32"	ø3/16"	ø1/4" ø5/16" ø3/8"	ø1/4"	ø5/16"	ø3/8"	ø3/8"	ø1/2"
Controlled (Free) flow	Flow rate ℓ/min (ANR)	100	180	230	260	390	460	660	790	920	1580	1710
	Effective area mm²	1.5	2.7	3.5	4	6	7	10	12	14	12	26

Note) The flow rate values are at a pressure of 0.5MPa and temperature of 20°C.

# Series AS-FG



EMC-AS\_2-3\_1FG-01A-UK

# Series AS-FG

## How to Order

**AS** **2** **3** **1** **1** **F** **G** — **01** — **06** — — —

**Body size**

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

**Type**

2	Elbow
3	Universal

**Control method**

0	Meter-out
1	Meter-in

**With One-touch fittings**

**Stainless steel specification (SUS303)**

**Thread type**

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

**Option**

—	Hexagon lock nut
J	Round lock nut

**Made to Order**

**Option**

—	None
S	With sealant *

\* M5 and U10/32 are not available with sealant.

**Applicable tube outside diameter**

Metric size	Inch size
23	ø3.2 *
04	ø4
06	ø6
08	ø8
10	ø10
12	ø12

\* Use a ø1/8" tube.

**Port size**

M5	M5
U10/32	10-32UNF
01	1/8
02	1/4
03	3/8
04	1/2

## Made to Order

**1** Lubricant: Vaseline

**X12**

Ex.) AS1201FG-M5-23-X12

**2** Grease-free (Seal: Fluorine Coating) + Throttle Valve (Without Check Valve)

**X21**

Ex.) AS1201FG-M5-23-X21

**3** Throttle Valve (Without Check Valve)

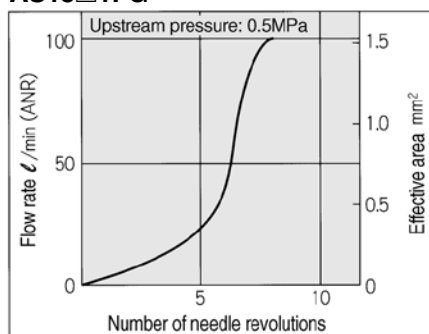
**X214**

Ex.) AS1201FG-M5-23-X214

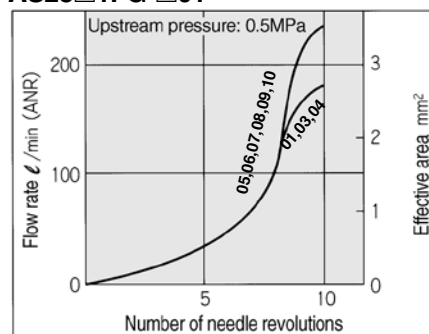
Note) Throttle valve is only compatible with the part no. of the meter-out type.

## Needle Valve/Flow Rate Characteristics

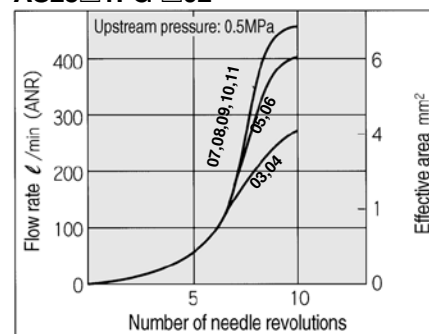
AS12□1FG  
AS13□1FG



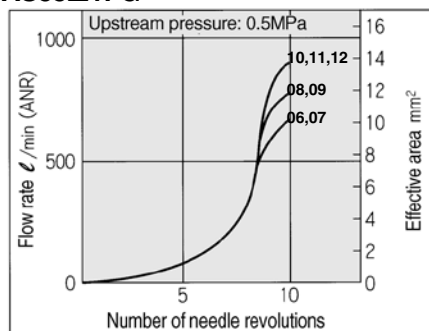
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AS23□1FG-□01



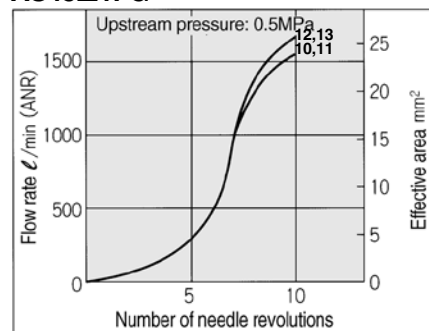
AS22□1FG-□02  
AS23□1FG-□02



AS32□1FG  
AS33□1FG



AS42□1FG  
AS43□1FG

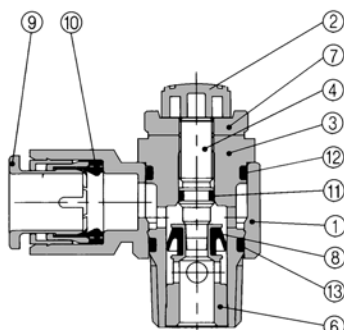
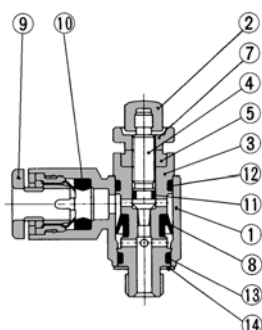


## Construction/Elbow Type

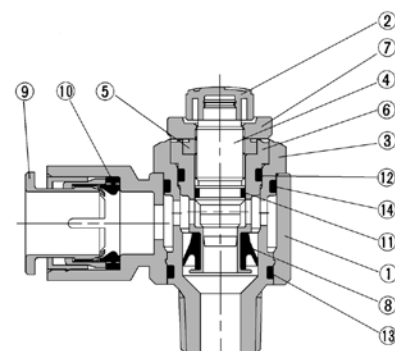
Meter-out type

M5 type

U10/32 type



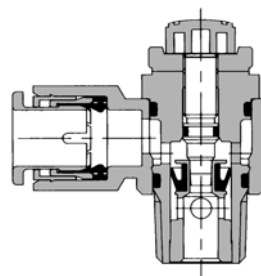
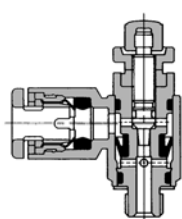
**AS3201FG-02**



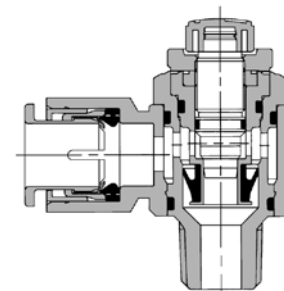
Meter-in type

M5 type

U10/32 type



**AS3211FG-02**



### Parts list

No.	Description	Material	Note
1	<b>Body A</b>	PBT	
2	<b>Knob</b>	PBT	
3	<b>Body B</b>	SUS303	
4	<b>Needle</b>	SUS303	
5	<b>Needle guide</b>	SUS303	
6	<b>Seat ring</b>	SUS303	
7	<b>Lock nut</b>	SUS303	
8	<b>U seal</b>	NBR	
9	<b>Cassette</b>	POM, Stainless steel	
10	<b>Seal</b>	NBR	
11	<b>O-ring</b>	NBR	
12	<b>O-ring</b>	NBR	
13	<b>O-ring</b>	NBR	
14	<b>O-ring</b>	NBR	
15	<b>Gasket</b>	NBR/SUS304	M5 type only

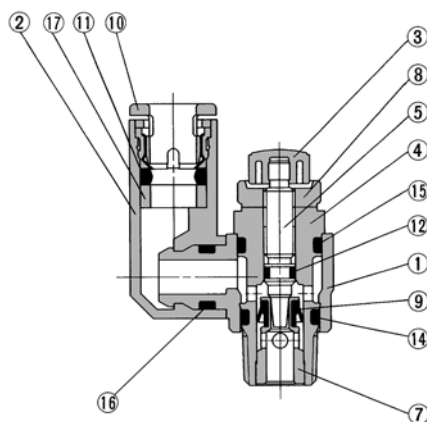
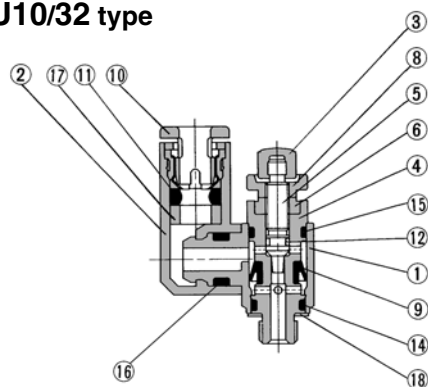
# Series AS-FG

## Construction/Universal Type

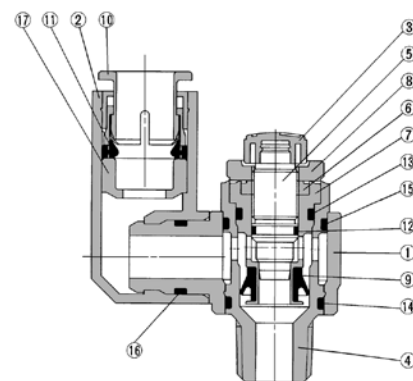
### Meter-out type

#### M5 type

#### U10/32 type



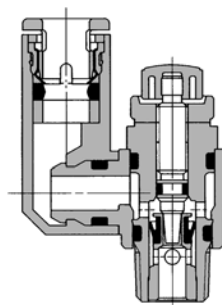
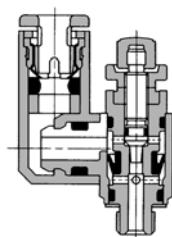
#### AS3301FG-02



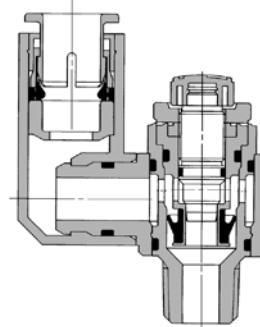
### Meter-in type

#### M5 type

#### U10/32 type



#### AS3311FG-02

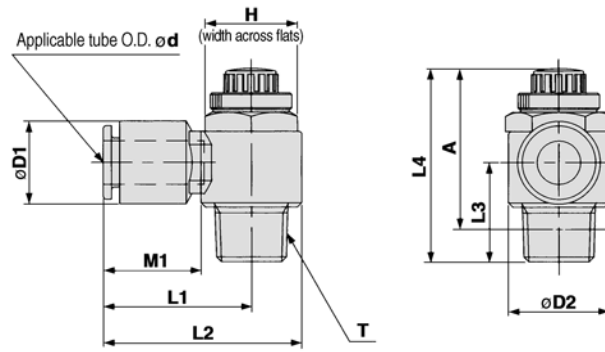


### Parts List

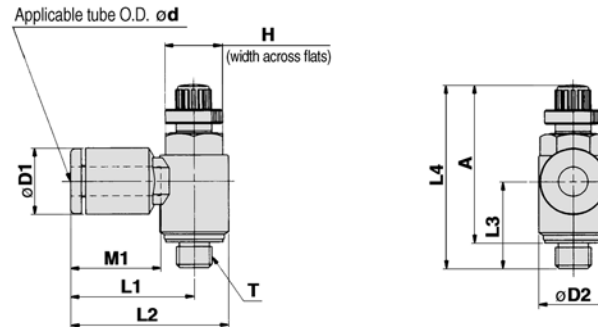
No.	Description	Material	Note
1	<b>Body A</b>	PBT	
2	<b>Elbow body</b>	PBT	
3	<b>Knob</b>	PBT	
4	<b>Body B</b>	SUS303	
5	<b>Needle</b>	SUS303	
6	<b>Needle guide</b>	SUS303	
7	<b>Seat ring</b>	SUS303	
8	<b>Lock nut</b>	SUS303	
9	<b>U seal</b>	NBR	
10	<b>Cassette</b>	POM, Stainless steel	
11	<b>Seal</b>	NBR	
12	<b>O-ring</b>	NBR	
13	<b>O-ring</b>	NBR	
14	<b>O-ring</b>	NBR	
15	<b>O-ring</b>	NBR	
16	<b>O-ring</b>	NBR	
17	<b>Spacer</b>	POM (Note 1)	
18	<b>Gasket</b>	NBR, Stainless steel	

Note 1)  $\phi 3/16"$ ,  $\phi 3/8"$  and  $\phi 1/2"$  are SUS303.

## Dimensions/Elbow Type



M5 type  
U10/32 type



### Metric size

Model	d	T	H	D1	D2	L1	L2	L3	L4		A *		M1	Weight g
									Max.	Min.	Max.	Min.		
AS12□1FG-M5-23	3.2	M5	8	8.4	9.6	17.3	22.1	12.3	28.6	25.8	25	22.2	12.7	7
AS22□1FG-01-23	3.2	R(PT)1/8	12	9.3	14.2	20.4	27.5	14.3	36.1	31.1	32.1	27.1	12.7	16
AS12□1FG-M5-04	4	M5	8	9.3	9.6	17.3	22.1	12.3	28.6	25.8	25	22.2	12.7	7
AS12□1FG-M5-06	6			11.6		18.1	22.9	11.7					13.5	
AS22□1FG-01-04	4	R(PT)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□1FG-01-06	6			11.6		20.4	27.5						13.5	
AS22□1FG-01-08	8			15.2		25.3	32.4						18.5	19
AS22□1FG-01-10	10			18.5		33.1	40.2						14.1	21
AS22□1FG-02-04	4	R(PT)1/4	17	10.4	18.5	25.2	34.4	19.7	40.1	35.1	34.4	29.4	16	32
AS22□1FG-02-06	6			12.8		25.2	34.4						17	34
AS22□1FG-02-08	8			15.2		27.2	36.4						18.5	34
AS22□1FG-02-10	10			18.5		33.9	43.2						19.5	21
AS32□1FG-02-06	6	R(PT)1/4	19	12.8	23	27.8	39.3	21.3	48.3	43.3	42.8	37.8	17	60
AS32□1FG-02-08	8			15.2		29.5	41						18.5	63
AS32□1FG-02-10	10			18.5		31.8	43.3						21	67
AS32□1FG-02-12	12			20.9		32.8	44.3						22	69
AS32□1FG-03-06	6	R(PT)3/8	19	12.8	23	27.8	39.3	19.8	45.4	40.4	40.2	35.2	17	55
AS32□1FG-03-08	8			15.2		29.5	41						18.5	57
AS32□1FG-03-10	10			18.5		31.8	43.3						21	59
AS32□1FG-03-12	12			20.9		32.8	44.3						22	61
AS42□1FG-04-10	10	R(PT)1/2	24	18.5	28.6	33.6	47.9	24.5	56.7	49.2	49.6	42.1	21	100
AS42□1FG-04-12	12			20.9		34.6	48.9						22	101

\* Reference dimensions for threads after installation.

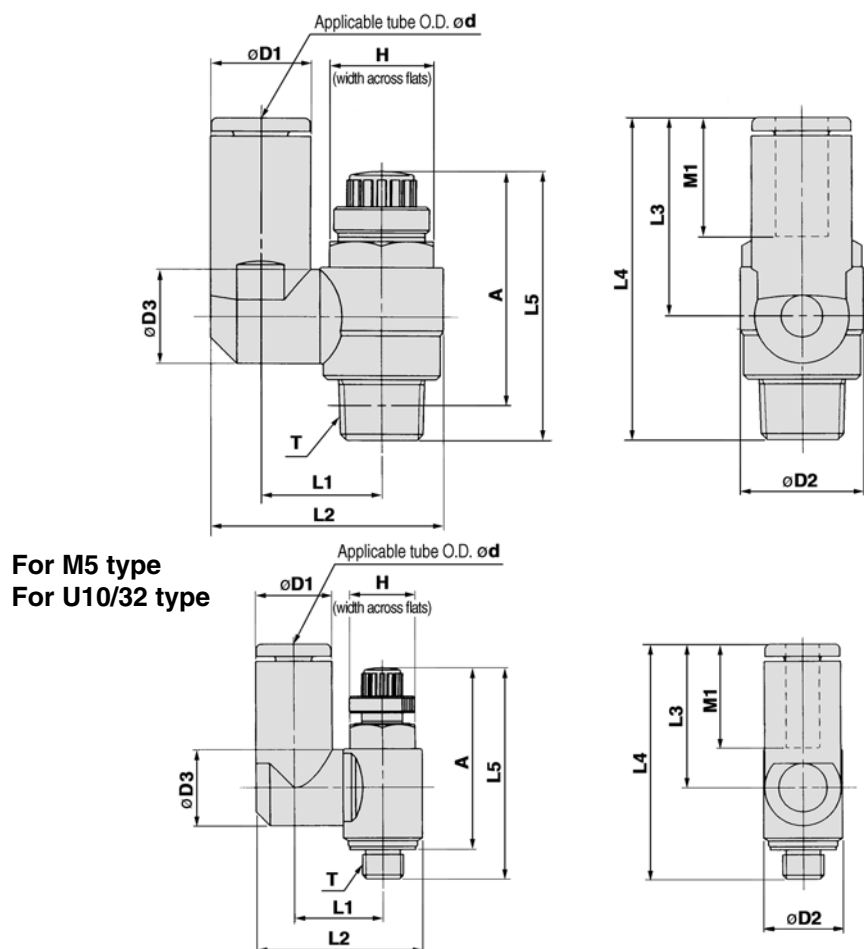
### Inch size

Model	d	T	H	D1	D2	L1	L2	L3	L4		A *		M1	Weight g
									Max.	Min.	Max.	Min.		
AS12□1FG-U10/32-01	1/8"	10-32UNF	8	8.4	9.6	17.3	22.1	12.3	28.6	25.8	25	22.2	12.7	7
AS12□1FG-U10/32-03	5/32"			9.3										
AS12□1FG-U10/32-05	3/16"			11.4		21.3	26.1							
AS12□1FG-U10/32-07	1/4"			12		18.3	23.1	11.7						
AS22□1FG-N01-01	1/8"	NPT 1/8	12.7	9.3	14.2	20.4	27.5	13.4	35.2	30.2	32.1	27.1	12.7	16
AS22□1FG-N01-03	5/32"			11.4		23.1	30.2						16.5	17
AS22□1FG-N01-05	3/16"			13.2		23.9	31						18.5	19
AS22□1FG-N01-07	1/4"			15.2		25.3	32.4						14.1	21
AS22□1FG-N01-09	5/16"	NPT 1/4	17.5	15.2	18.5	25.2	32.4	19.5	39.9	34.9	34.4	29.4	21	32
AS22□1FG-N02-03	5/32"			10.4		25.2	34.4						16	32
AS22□1FG-N02-05	3/16"			11.4		24.9	34.2						17	34
AS22□1FG-N02-07	1/4"			13.2		25.2	34.5						18.5	34
AS22□1FG-N02-09	5/16"	NPT 1/4	19	15.2	23	27.2	36.4	19.5	48.3	43.3	42.8	37.8	21	36
AS22□1FG-N02-11	3/8"			17.9		33.9	43.2						21	67
AS32□1FG-N02-07	1/4"			13.2		27.8	39.3						17	60
AS32□1FG-N02-09	5/16"			15.2		29.5	41						18.5	63
AS32□1FG-N02-11	3/8"	NPT 3/8	19	17.9	23	31.8	43.3	19.8	45.4	40.4	40.2	35.2	21	59
AS32□1FG-N03-07	1/4"			13.2		27.8	39.3						17	55
AS32□1FG-N03-09	5/16"			15.2		29.5	41						18.5	57
AS32□1FG-N03-11	3/8"			17.9		31.8	43.3						21	59
AS42□1FG-N04-11	3/8"	NPT 1/2	23.8	17.9	28.6	33.6	47.9	24.5	56.7	49.2	49.6	42.1	21	100
AS42□1FG-N04-13	1/2"			21.7		35.2	49.5						22	101

\* Reference dimensions for 10-32UNF and NPT threads after installation.

# Series AS-FG

## Dimensions/Universal Type



### Metric size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A *		M1	Weight g
											Max.	Min.	Max.	Min.		
AS13□1FG-M5-23	3.2	M5	8	8.4	9.6	9.3	10.8	19.8	17.5	28.7	28.6	25.8	25	22.2	12.7	7
AS13□1FG-M5-04	4			9.3				20.3								
AS13□1FG-M5-06	6			11.6				21.4	20.6	31.8						
AS23□1FG-01-23	3.2	R(PT) 1/8	12	8.4	14.2	9.3	13.1	24.4	17.5	30.9	35.2	30.2	32.1	27.1	12.7	17
AS23□1FG-01-04	4			9.3				24.9								
AS23□1FG-01-06	6			11.6				26.9	22.9	36.3						
AS23□1FG-01-08	8	R(PT) 1/4	17	15.2	18.5	12.9	16.2	30.9	28.2	40.8	39.9	34.9	34.4	29.4	18.5	21
AS23□1FG-02-04	4			10.4				30.6	21.9	39.6						
AS23□1FG-02-06	6			12.8				34	25.2	42.1						
AS23□1FG-02-08	8	R(PT) 1/4	17	15.2	18.5	12.9	18.3	35.2	28.2	45.1	48.3	43.3	42.8	37.8	18.5	36
AS23□1FG-02-10	10			18.5				43.7	32.6	53.9						
AS33□1FG-02-06	6			12.8				38.5	25.2	46.5						
AS33□1FG-02-08	8	R(PT) 1/4	19	15.2	23	12.9	20.6	39.7	28.2	49.5	45.4	40.4	40	35	17.5	59
AS33□1FG-02-10	10			18.5				43.7	32.6	53.9						
AS33□1FG-02-12	12			20.9				44.9	34.4	55.7						
AS33□1FG-03-06	6	R(PT) 3/8	19	12.8	23	12.9	20.6	38.5	25.2	45	45.4	40.4	40	35	17.5	56
AS33□1FG-03-08	8			15.2				39.7	28.2	48						
AS33□1FG-03-10	10			18.5				43.7	32.6	52.4						
AS33□1FG-03-12	12	R(PT) 1/2	24	20.9	28.6	16.2	25.8	44.9	34.4	54.2	56.7	49.2	49.6	42.1	21	104
AS43□1FG-04-10	10			18.5				49.4	32.6	57.1						
AS43□1FG-04-12	12			20.9				52	36.3	60.8						

\* Reference dimensions for M5 and R(PT) threads after installation.

### Inch size

Model	d	T	H	D1	D2	D3	L1	L2	L3	L4	L5		A *		M1	Weight g
											Max.	Min.	Max.	Min.		
AS13□1FG-U10/32-01	1/8"	10-32UNF	8	8.4	9.6	9.3	10.8	19.8	17.5	28.7	28.6	25.8	25	22.2	12.7	7
AS13□1FG-U10/32-03	5/32"			9.3				20.3								
AS13□1FG-U10/32-05	3/16"			11.4				21.3	23.3	34.5						
AS13□1FG-U10/32-07	1/4"	NPT	12.7	12	14	10.9	14	21.6	20.7	31.9	35.2	30.2	32.1	27.1	12.7	17
AS23□1FG-N01-01	1/8"			8.4				24.4	17.5	30.9						
AS23□1FG-N01-03	5/32"			9.3				24.9								
AS23□1FG-N01-05	3/16"	NPT	17.5	11.4	19	10.9	14	26.8	23.9	36.3	48.3	43.3	42.8	37.8	18.5	36
AS23□1FG-N01-07	1/4"			13.2				29.9	25.6	40.8						
AS23□1FG-N01-09	5/16"			15.2				30.9	28.2	40.8						
AS23□1FG-N02-03	5/32"	NPT	17.5	10.4	19	10.9	16.2	30.6	21.9	39.6	48.3	43.3	42.8	37.8	16	32
AS23□1FG-N02-05	3/16"			11.4				31.1	23.9	42.1						
AS23□1FG-N02-07	1/4"			13.2				34.2	25.6	45.1						
AS23□1FG-N02-09	5/16"	NPT	19	15.2	23	12.9	20.6	35.2	28.2	47.9	45.4	40.4	40.2	35.2	18.5	59
AS23□1FG-N02-11	3/8"			17.9				43.7	32.6	52.4						
AS33□1FG-N02-07	1/4"			13.2				38.7	25.6	46.9						
AS33□1FG-N02-09	5/16"	NPT	19	15.2	23	12.9	20.6	39.7	28.2	49.5	48.3	43.3	42.8	37.8	18.5	63
AS33□1FG-N03-11	3/8"			17.9				43.7	32.6	52.4						
AS33□1FG-N03-07	1/4"			13.2				38.7	25.6	45						
AS33□1FG-N03-09	5/16"	NPT	19	15.2	23	12.9	20.6	39.7	28.2	48	45.4	40.4	40.2	35.2	21	65
AS33□1FG-N03-11	3/8"			17.9				43.7	32.6	52.4						
AS43□1FG-N04-11	3/8"			17.9				43.7	32.6	52.4						
AS43□1FG-N04-13	1/2"	NPT	23.8	21.7	29	16.2	25.8	49.4	32.6	54.4	56.7	49.2	49.6	42.1	21	104
AS43□1FG-N04-13	1/2"			21.7				52	36.3	57.1						

\* Reference dimensions for 10-32UNF and NPT threads after installation.



## Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution,” “Warning” or “Danger.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) <sup>1)</sup>, and other safety regulations.

### Caution:

**Caution** indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

### Warning:

**Warning** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

### Danger:

**Danger** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

- 1) ISO 4414: Pneumatic fluid power – General rules relating to systems.  
ISO 4413: Hydraulic fluid power – General rules relating to systems.  
IEC 60204-1: Safety of machinery – Electrical equipment of machines.  
(Part 1: General requirements)  
ISO 10218-1: Manipulating industrial robots - Safety.  
etc.

## Warning

### 1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

### 2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

### 3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.

1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

### 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

## Caution

### 1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries.  
If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.  
If anything is unclear, contact your nearest sales branch.

## Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

### Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. <sup>2)</sup>  
Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty.  
A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

### Compliance Requirements

1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

## Caution

### SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.  
Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

## Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

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