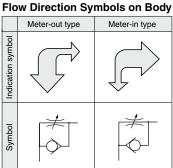
Metal Knob

Speed Controller with One-touch Fitting Elbow Type

- Knob material changed from resin to metal
- Applicable tubing O.D.: Ø4, Ø6, Ø8, Ø10, Ø12

Symbol











Model

	5	Applicable tubing O.D.							
Model	Port size	Metric size							
		4	6	8	10	12			
AS12□1F-M5-X242-J	M5 x 0.8	•	•						
AS22□1F-01-X242-J	R1/8	•	•	•	•				
AS22□1F-02-X242-J	R1/4	•	•	•	•				
AS32□1F-03-X242-J	R3/8		•	•	•	•			
AS42□1F-04-X242-J	R1/2				•	•			

Specifications

Specifications not listed are the same as those of the standard product. For details, refer to the **Web Catalog**.

Fluid	Air						
Proof pressure	1.5 MPa						
Max. operating pressure	1 MPa						
Min. operating pressure	0.1 MPa						
Ambient and fluid temperatures	-5 to 60°C (No freezing)						
Applicable tubing materials	Nylon, Soft nylon, Polyurethane*1, FEP, PFA						

- *1 Use caution when operating at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the **Web Catalog** for details on tubing.)
- * Brass parts are electroless nickel plated.

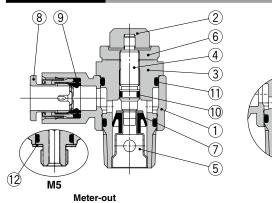


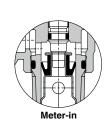


AS-X242-J

How to Order AS 2 2 0 1F-01-06 S-X242-Lock nut Body size ● M5 x 0.8 Round lock nut 1/8. 1/4 Type • 3/8 1/2 Elbow Seal method S With sealant (AS22□1F to AS32□1F) Control type ● Port size Applicable tubing O.D.*1 SN With sealant (AS42□1F only) 0 Meter-out M5 M5 x 0.8 04 ø4 * The M5 is not available with sealant. Meter-in 06 01 R1/8 ø6 * Meter-out and meter-in types can be 02 R1/4 80 ø8 visually identified by the lock nut. 10 12 03 R3/8 ø10 To select the applicable tubing O.D., refer to the "Model" chart on the cover page. Meter-out: Electroless nickel plating 04 R1/2 Meter-in: Black zinc chromate plating ø12

Construction



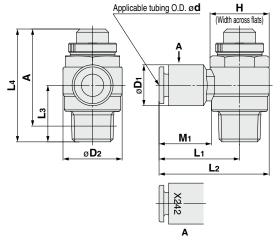


Component Parts

Description	Ma	aterial	Note					
Body A	PBT							
Knob	Brass		Electroless nickel plating					
Body B	Brass		Electroless nickel plating					
Needle	Brass		Electroless nickel plating					
Seat ring	Brass		Electroless nickel plating					
6 Lock nut	Proce*1	Meter-out	Electroless nickel plating					
LOCK HUL	Diass	Meter-in	Black zinc chromate plating					
U-seal	HNBR							
Cassette	_							
Seal	NBR							
O-ring	NBR							
O-ring	NBR							
Gasket	NBR/Stainless steel		*2					
	Body A Knob Body B Needle Seat ring Lock nut U-seal Cassette Seal O-ring O-ring	Body A Knob Body B Needle Seat ring Lock nut Brass*1 U-seal Cassette Seal O-ring O-ring	Body A PBT Knob Brass Body B Brass Needle Brass Seat ring Brass Lock nut Brass*1 Meter-out Meter-in U-seal HNBR Cassette — Seal NBR O-ring NBR O-ring NBR					

*1 Steel for the AS22 TF *2 Only applicable to the AS12 TF-M5

Dimensions



														[mm]
Model Applicat tubing 0	Applicable		н	_	D ₁ D ₂	L ₁	L2	Lз	L4*1		A *2			Weight
	I			וטו					Мах.	Min.	Мах.	Min.	M1	[g]
AS12 TF-M5-04-X242-J	4	M5 x 0.8	8	9.3	9.6	17.3	22.1	12.3	28.6	25.8	25	22.2	12.7	7.5
AS12□1F-M5-06-X242-J	6		8	11.6	9.6	18.1	22.9	11.7	28.6	25.8	25	22.2	13.5	7.5
AS22 TF-01-04S-X242-J	4	R1/8	12	9.3	14.2	20.4	27.5	13.4	35.2	30.2	32.1	27.1	12.7	18.5
AS22 TF-01-06S-X242-J	6		12	11.6	14.2	20.4	27.5	13.4	35.2	30.2	32.1	27.1	13.5	18.5
AS22 TF-01-08S-X242-J	8		12	15.2	14.2	25.3	32.4	13.4	35.2	30.2	32.1	27.1	18.5	20.5
AS22 TF-01-10S-X242-J	10		12	18.5	14.2	32.1	39.2	14.1	35.2	30.2	32.1	27.1	21	22.5
AS22 TF-02-04S-X242-J	4		17	10.4	18.5	25.2	34.4	17.7	39.9	34.9	34.4	29.4	16	34.5
AS22 TF-02-06S-X242-J	6	R1/4	17	12.8	18.5	25.2	34.4	17.7	39.9	34.9	34.4	29.4	17	34.5
AS22 TF-02-08S-X242-J	8		17	15.2	18.5	27.2	36.4	17.7	39.9	34.9	34.4	29.4	18.5	36.4
AS22 TF-02-10S-X242-J	10		17	18.5	18.5	35.3	44.5	18.3	39.9	34.9	34.4	29.4	21	38.5
AS32 TF-03-06S-X242-J	6	R3/8	19	12.8	23	27.8	39.3	19.8	45.4	40.4	40.2	35.2	17	58
AS32 TF-03-08S-X242-J	8		19	15.2	23	29.5	41	19.8	45.4	40.4	40.2	35.2	18.5	60
AS32 TF-03-10S-X242-J	10		19	18.5	23	31.8	43.3	19.8	45.4	40.4	40.2	35.2	21	62
AS32 TF-03-12S-X242-J	12		19	20.9	23	32.8	44.3	19.8	45.4	40.4	40.2	35.2	22	64
AS42 TF-04-10SN-X242-J	10	R1/2	24	18.5	28.6	33.6	47.9	24.5	56.7	49.2	49.6	42.1	21	106.5
AS42 TF-04-12SN-X242-J	12		24	21.7	28.6	35.2	49.5	24.5	56.7	49.2	49.6	42.1	22	106.5

*1 Reference dimensions *2 Reference dimensions of threads after installation

⚠ Caution

Be sure to read this before handling the products. For safety instructions and flow control equipment precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com