

Antistatic Speed Controller

(In-line type / Elbow type)

AS-X260

SMC CORPORATION 1-16-4 Shimbashi, Minato-ku

Tokyo 105-0004, JAPAN URL: http://www.smcworld.com

Application: Antistatic speed controller for semiconductor manufacturing equipment.

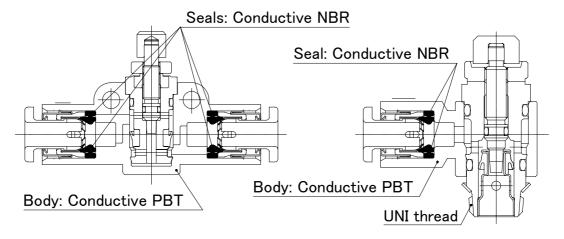
The use of conductive material (Seal: Conductive NBR) and UNI thread construction (gasket seal type) that leads electric charge to the grounded side (*1) helps prevent the electric charge of the speed controller.

 \triangle

*1) Make sure to ground the female thread to which a speed controller is connected. Otherwise, this speed controller or the tube will be left charged. Use antistatic tube.

Feature 1: Surface electrical resistance 10^4 to $10^7 \Omega$.

(Conductive material is used for the body and seals)



Feature 2: UNI thread construction (gasket seal type) free from electric charge. (AS2201F-U01-04-X260 type, AS22*1F-U01-06-X260 type)

Using UNI threads prevents electric charge, as a male thread and female Gasthread do not come in contact with each other. (For tapered threads, the threaded portion needs to be coated with sealant. This electrical insulation causes electric charge.)

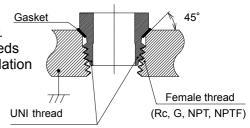


Illustration: UNI thread configuration (Chamfer the female threads)

Comparison with standard products (Parts listed other than below are the same as the standard products)

Model no. (-X260)	Standard no. (Type)	Different parts (or the added parts) from the standard products	Material
AS1000F-04-X260	AS1000F-04 (In-line type)	Body A	Conductive PBT
		Seal	Conductive NBR
		Cassette	_
		Name plate	PET
AS12*1-M5-F04-X260	AS12*1-M5-F04 (Elbow type)	Cassette	_
		Seal	Conductive NBR
		Name plate	PET
AS2201F-U01-04-X260	AS2201F-U01-04 (Elbow type)	Body A	Conductive PBT
		Knob	Brass
		Cassette	_
		Seal	Conductive NBR
		Name plate	PET
AS22*1F-U01-06-X260	AS22*1F-U01-06 (Elbow type)	Body A	Conductive PBT
		Knob	Brass
		Cassette	_
		Seal	Conductive NBR
		Name plate	PET

Specifications

Common specifications

Fluid	Air			
Proof pressure	1.5MPa (AS1000F-04-X260: 1.05MPa)			
Maximum operating pressure (*2)	1MPa (AS1000F-04-X260: 0.7MPa)			
Minimum operating pressure	0.1MPa			
Ambient and	-5 to 60°C			
fluid temperature (*2)	(No freezing)			
Number of needle rotations	10 turns (AS1000F-04-X260: 8 turns)			
Applicable tube materials	Antistatic soft nylon tubing (Series TAS)			
Applicable tube materials	Antistatic polyurethane tubing (Series TAU)			
Surface resistance	10^4 to $10^7 \Omega$			

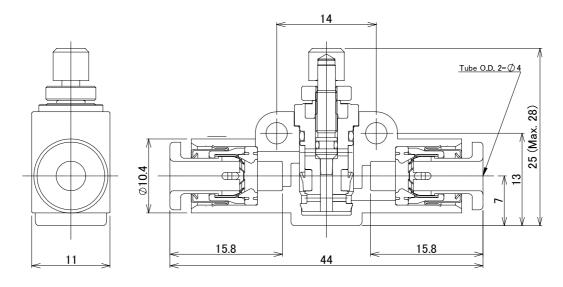
^{*2)} This value shows the maximum operating pressure for fittings in the indicated temperature range. When connecting tubing, the maximum operating pressure and temperature range values for tubing should be observed.

Individual specifications

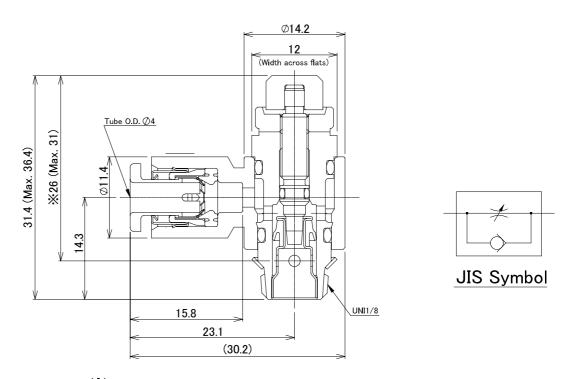
Model no.	Body size	Control method	Port size	Applicable tube O.D.	Dimensions
AS1000F-04-X260	M5 standard	_	_	Ø4mm	Refer to the next page.
AS1201-M5-F04-X260		Meter-out	M5×0.8		(*3)
AS1211-M5-F04-X260		Meter-in			
AS2201F-U01-04-X260	01, 02 standard	Meter-out	UNI1/8	Ø4mm	Refer to the next page. (*3)
AS2201F-U01-06-X260		Meter-out		Ø6mm	(*3)
AS2211F-U01-06-X260		Meter-in			

^{*3)} Dimensions are the same as standard products. (Refer to "Comparison with standard products".) Refer to our Best Pneumatics general catalog for details.

(Model: AS1000F-04-X260)



(Model: AS2201F-U01-04-X260)



X Reference dimensions after UNI thread installation.

Caution: To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instructions" in our "Best Pneumatics" general catalog before use.