

## **Index plate**

It is possible to identify the producto when multiple controllers are mounted and identify the flow direction by attaching an identification label.



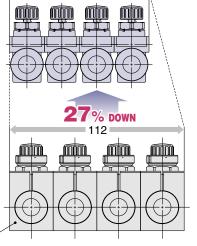
## Lightweight

Reduced by 30% compared with the conventional product (AS2002F-04)

## Compact

#### NEW

Four AS3002F-10 controllers connected



#### Conventional

Four AS3001F-10 controllers connected with holders (TMH-10)

Flow-rate characteristics are equivalent to the conventional product.





## Series AS

#### Series

	Applicable tube O.D.							Applicable cylinder						
Series	Metric size				Inch size				bore size					
	2	3.2	4	6	8	10	12	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"	(mm)
AS1002F	•	•	•	•				•	•	•				6, 10, 16, 20 Note)
AS2002F			•	•					•	•				20, 25, 32
AS2052F				•	•					•	•			20, 25, 32, 40
AS3002F				•	•	•	•			•	•	•		40, 50, 63
AS4002F						•	•					•	•	63, 80, 100

Note) The applicable cylinder bore sizes (mm) for AS1002F-02 are 2.5, 4, 6.

#### **Specifications**

Fluid	Air
Proof pressure	1.5 MPa (1.05 MPa Note 1))
Max. operating pressure	1 MPa (0.7 MPa Note 1))
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Applicable tube material	Nylon, Soft nylon,
Applicable tube material	Polyurethane

Note 1) In case of AS1002F-02

Note 2) Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to European Best Pneumatics for more information)

Note 3) Brass parts are all electroless nickel plated.

#### Flow Rate and Effective Area

Series		AS1002F		AS2002F		AS2052F		AS3002F		AS4002F		
	Metric size	ø2	ø3.2, ø4, ø6	ø4	ø6	ø6	ø8	ø6	ø8	ø10, ø12	ø10	ø12
Tube O.D.	Inch size	_	ø1/8", ø5/32" ø1/4"	ø5/32"	ø1/4"	_	ø1/4" ø5/16"	ø1/4"	ø5/16"	ø3/8"	ø3/8"	ø1/2"
Controlled flow	Flow rate (d/min (ANR))	20	100	130	230	290	460	390	660	920	920	1390
(Free flow)	Effective area (mm²)	0.3	1.5	2	3.5	4.5	7	6	10	14	14	21

RoHS

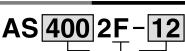
Note) Flow rate values are measured at 0.5 MPa and 20°C.

Flow Direction Symbol on Body









Body size •

100	M3, M5 standard
200	1/8 standard
205	1/4 standard
300	3/8 standard
400	1/2 standard

With one-touch fittings

#### Applicable tube O.D.

vietric	size	inch size			
02	ø2	01	ø1/8"		
23	ø3.2*	03	ø5/32"		
04	ø4	07	ø1/4"		
06	ø6	09	ø5/16"		
08	ø8	11	ø3/8"		
10	ø10	13	ø1/2"		
12	ø12	* Use	x1/8" tube		

#### **Made to Order**



**Lubricant: Vaseline** 

Ex.) AS2002F-04-X12

Grease-free (Sealant: Fluoro coated) + **Restrictor** (Without Check Valve)

-X21

Ex.) AS2002F-04-X21

Note) Not particle-free

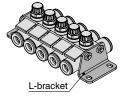
**Restrictor (Without Check Valve)** 

Ex.) AS2002F-04-X214

#### **Options**

#### L-bracket

Part no.	Applicable series
AS-12L	AS1002F-02
AS-10L	AS1002F
AS-20L	AS2002F
AS-25L	AS2052F
AS-30L	AS3002F
AS-40L	AS4002F



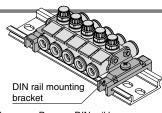
#### Part no. list of threaded stud kit for manifold

Model		4 stations	6 stations	8 stations	10 stations	
Metric size	Inch size	4 514110115	o stations	o stations	TO Stations	
AS1002F-02	_	AS-31B	AS-32B	AS-33B	AS-34B	
AS1002F-23	AS1002F-01		AS-33B	AS-34B	AS-36B	
AS1002F-04	AS1002F-03	AS-32B	AS-33D	AS-35B	AS-30D	
AS1002F-06	1	AS-32B	AS-34B	AS-36B	AS-37B	
_	AS1002F-07		AS-34B	AS-30D	AS-38B	
AS2002F-04	AS2002F-03			AS-35B	AS-37B	
AS2002F-06	_	AS-32B	AS-34B	AS-36B	AO-3/B	
_	AS2002F-07				AS-38B	
AS2052F-06	_					
_	AS2052F-07	AS-41B	AS-42B	AS-44B	AS-45B	
AS2052F-08	AS2052F-09					
AS3002F-06	I					
_	AS3002F-07			AS-45B		
AS3002F-08	AS3002F-09	AS-42B	AS-44B	A5-43B	AS-47B	
AS3002F-10	_	A3-42D	A3-44D		A3-47B	
_	AS3002F-11			AS-46B		
AS3002F-12	I			A3-40D		
AS4002F-10	_					
_	AS4002F-11	AS-43B	AS-45B	AS-47B	AS-48B	
AS4002F-12		A3-43B	A3-43D	A3-4/B	A3-46D	
_	AS4002F-13					

#### **DIN rail mounting bracket**

	<u> </u>
Part no.	Applicable series
AS-10D	AS1002F
AS-20D	AS2002F
AS-25D	AS2052F
AS-30D	AS3002F
AS-40D	AS4002F

\* Bracket for AS1002F-02 is not available.



\* Prepare DIN rail by user.

#### Details of threaded stud kit for manifold

Part no. Threaded stud		ed stud	Accessories					
raitiio.	Length	pcs.	Hexagon nut	pcs.	Flat washer	pcs.		
AS-31B	38	2						
AS-32B	62	2						
AS-33B	72	2						
AS-34B	90	2	Mo	4	МЗ	4		
AS-35B	104	2	M3		IVIS	4		
AS-36B	114	2						
AS-37B	135	2						
AS-38B	140	2						
AS-41B	78	2						
AS-42B	111	2						
AS-43B	119	2						
AS-44B	147	2	M4	4		4		
AS-45B	179	2	IVI4	4	M4	4		
AS-46B	191	2						
AS-47B	236	2						
AS-48B	277	2						

\* Precautions when options are ordered

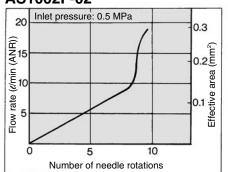
Threaded studs for manifold are not included when L-bracket and DIN rail mounting bracket are ordered. Please order them according to the number of stations.

Ex.) AS2002F-04 When connecting 4 pcs. and mounting L-brackets on both sides

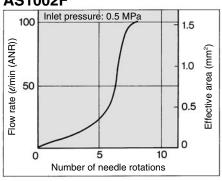
- Speed controller
- L-bracket
- Threaded stud kit for manifold
- AS2002F-04 ····· 4 pcs. AS-20L ····· 2 pcs. AS-32B .....1 pc.

#### **Needle Valve/Flow-rate Characteristics**

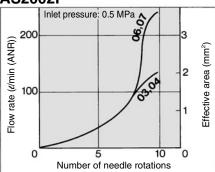
#### AS1002F-02



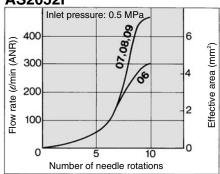
#### AS1002F



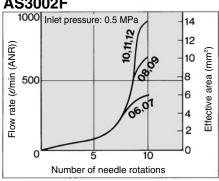
#### **AS2002F**



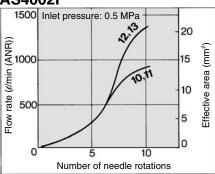
#### AS2052F



#### AS3002F

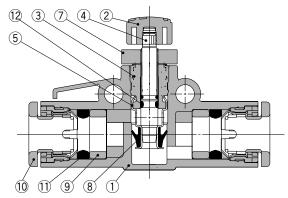


#### **AS4002F**

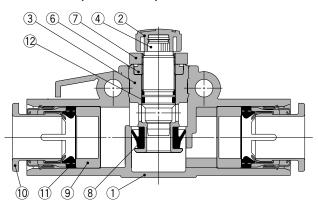


#### Construction

#### AS1002F, AS2002F, AS2052F



#### AS1002F-02, AS3002F, AS4002F



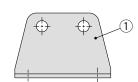
#### **Component Parts**

No.	Description	Material	Note
1	Body A	PBT	
2	Handle	PBT	
3	Body B	Brass	Electroless nickel plated
4	Needle	Brass	Electroless nickel plated
5	Seat ring	Brass	Electroless nickel plated
6	Needle guide	Brass	Electroless nickel plated

No.	Description	Material	Note
7	Lock nut	Steel wire	Zinc chromated
8	U-seal	HNBR	
9	Spacer	POM Note)	
10	Cassette	_	
11	Seal	NBR	
12	O-ring	NBR	

Note) AS2052F, AS3002F, AS4002F are made of PBT. AS3002F-11, AS4002F-11, AS4002F-13 are made of electroless nickel plated brass.

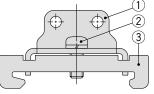
#### L-bracket



#### **Component Part**

No.	Description	Material
1	Bracket	Steel strip

#### **DIN rail mounting bracket**



#### **Component Parts**

No.	Description	Material
1	Bracket	Steel strip
2	Cross recessed round head screw	Steel wire
3	Clasp	Steel strip

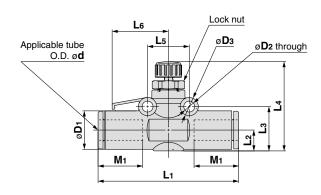
## **⚠** Caution

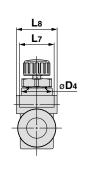
Be sure to read before handling. Refer to back cover for Safety Instructions and European Best Pneumatics for Flow Control **Equipment Precautions.** 



## Series AS

### **Dimensions**





#### **Metric Size**

Madal	Applicable	D <sub>1</sub>	D2	D3	D4	1.	La	La	L4	Note)	1	1.0	1-	La	M1	Weight
Model	tube O.D. ø <b>d</b>	וט	<b>D</b> 2	D3	D4	L1	L2	Lз	MAX.	MIN.	L <sub>5</sub>	L6	L <sub>7</sub>	L8	IVI1	(g)
AS1002F-02	2	6	3.2	5	6	25.4	3.4	7.9	20.9	18.4	11	9.8	5	6.7	8.8	3
AS1002F-23	3.2	8.4				36	4.4	11.1	23.8	21				9.8	12.7	5
AS1002F-04	4	9.3	3.3	5.5	9.1	37	5.1	11.8	24.5	21.7	11	15.4	8.8	10.1	12.7	5.5
AS1002F-06	6	11.6				39.5	6.1	12.8	25.5	22.7				12.3	13.5	6.5
AS2002F-04	4	9.3	3.3	5.5	10	40.7	5.2	12.3	28.9	25.4	12.6	17	10.5	11.5	12.7	8.5
AS2002F-06	6	11.6	3.3	5.5	10	42.5	6.3	13.4	30	26.5	12.0	17	10.5	12.3	13.5	9.5
AS2052F-06	6	12.8	4.3	7.8	14	53.2	6.7	16.3	33.2	28.2	17	00.0	12	15.7	17	19
AS2052F-08	8	15.2	4.3	7.8	14	57.2	8	17.6	34.5	29.5	17	22.8	12	16.1	18	22
AS3002F-06	6	13.2				59	7.4	19.3	38.6	33.6					17	36
AS3002F-08	8	15.2	4.3		100	65	8.2	20.1	39.4	34.4	22	25	12	20.5	18	38
AS3002F-10	10	18.5	4.3	8	19.3	70.8	9.8	21.7	41	36	22	25	12		21	42
AS3002F-12	12	20.9				76	10.9	22.8	42.1	37.1				22.1	22	44
AS4002F-10	10	18.5	4.0		0.5	76.9	10.3	22.7	51.6	44.1	28	00	1.4	00.0	21	76
AS4002F-12	12	21.7	4.3	8	25	81.3	11.3	23.7	52.6	45.1	∠8	33	14	26.2	22	82

Note) Reference dimensions

#### Inch Size

Model	Applicable	D	D <sub>2</sub>	Da	D.			1.0	L4	Note)		1.0			M <sub>1</sub>	Weight
Model	tube O.D. ø <b>d</b>	D <sub>1</sub>	D2	<b>D</b> 3	D4	L1	L2	Lз	MAX.	MIN.	L <sub>5</sub>	L6	L <sub>7</sub>	L8	IVI1	(g)
AS1002F-01	1/8"	8.4				36	4.5	11.2	23.8	21				9.8	12.7	5
AS1002F-03	5/32"	9.3	3.3	5.5	9.1	37	5.2	11.9	24.5	21.7	11	15.4	8.8	10.1	12.7	5.5
AS1002F-07	1/4"	12				39.5	6.1	12.8	25.5	22.7				12.8	13.7	6.5
AS2002F-03	5/32"	9.3	3.3	5.5	10	40.7	5.2	12.3	28.9	25.4	12.6	17	10.5	11.5	12.7	8.5
AS2002F-07	1/4"	12	3.3	5.5	10	42.6	6.5	13.6	30.2	26.7	12.0	17	10.5	12.8	13.7	9.5
AS2052F-07	1/4"	13.2	4.3	7.8	14	53.4	6.9	16.5	33.4	28.4	17	22.8	12	15.7	17	19
AS2052F-09	5/16"	15.2	4.3	7.0	14	57.2	8	17.6	34.5	29.5	17	22.0	12	16.1	18	22
AS3002F-07	1/4"	13.2				59	7.4	19.3	38.6	33.6					17	35
AS3002F-09	5/16"	15.2	4.3	8	19.3	65	8.2	20.1	39.4	34.4	22	25	12	20.5	18	38
AS3002F-11	3/8"	18.5				69.8	9.8	21.7	41	36					21	52
AS4002F-11	3/8"	18.5	4.3	8	25	76.9	10.3	22.7	51.6	44.1	28	33	14	26.2	21	86
AS4002F-13	1/2"	21.7	4.3	0	25	81.3	11.3	23.7	52.6	45.1	20	33	14	20.2	22	95

Note) Reference dimensions

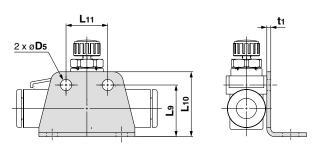
Proper tightening torque for a lock nut is shown in the below table. For standard installation, turn 15 to  $30^\circ$  using tool, after fastening by hand. Pay attention not to over torque the product.

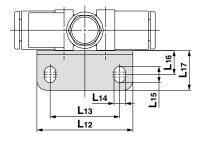
Series	Proper tightening torque (N·m)
AS1002F-02	0.07
AS1002F	0.2
AS2002F	0.3
AS2052F	1
AS3002F	2
AS4002F	4



#### L-bracket

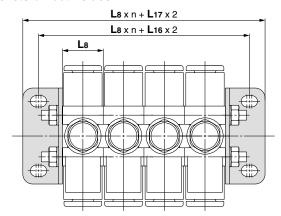
#### Bracket on a single side





Part no.	Applicable series	D <sub>5</sub>	L <sub>9</sub>	L10	L11	L12	L13	<b>L</b> 14	L15	<b>L</b> 16	L17	t1
AS-12L	AS1002F-02		9.9	13.4	11	07 E	10 5					1
AS-10L	AS1002F	3.4	14.8	18.3		27.5	19.5	3.4	4.9	7.3	12	'
AS-20L	AS2002F		15.6	19.6	12.6	29	21					1.2
AS-25L	AS2052F		19.6	24.6	17	38	28					
AS-30L	AS3002F	4.5	24.8	29.8	22	43	33	4.5	6.5	9.5	15.5	1.4
AS-40L	AS4002F		25.7	30.7	28	49	39					1.4

#### Brackets on both sides



Note 1) Refer to page 3 for L<sub>8</sub>.

Note 2) The above figure shows the manifold with controllers connected using two L-brackets and a threaded stud kit for manifold.

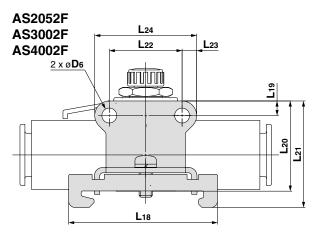
Refer to page 1 for threaded stud kits for manifold.

#### DIN rail mounting bracket

Bracket on a single side
AS1002F
AS2002F

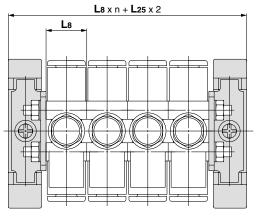
2 x Ø D6

L24
L23
L25



Part no	Applicable series	D <sub>6</sub>	I 18	I 19	1 20	I 21	1 22	1 23	1 24	I 25	to.
	AS1002F					23.2			18		
AS-20D	AS2002F	3.4		3.5			12.6	3.5	19.6		
	AS2052F		45		22	27	17			11.2	1.6
	AS3002F			4.4		32.2		4.4	30.8		
	AS4002F				28.1	33.1	28		36.8		

#### Brackets on both sides



Note 1) Refer to page 3 for L<sub>8</sub>.

Note 2) The above figure shows the manifold with controllers connected using two DIN rail mounting brackets and a threaded stud kit for manifold.

Refer to page 1 for threaded stud kits for manifold.

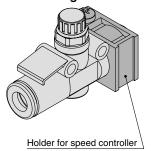
# Holder for Speed Controller Series TMH

A holder for securing a speed controller with one-touch fittings (In-line type)

## Possible to hold a single controller.



#### Holder mounting



#### **Specifications**

Ambient temperature	−20 to 60°C
Material	Polypropylene
Colour	White

## Accessory: Cross Recessed Round Head Screw for Mounting (Zinc chromated)

Mo	del	Size	Piece	
Metric size	Inch size	(Nominal x Length)	Piece	
TMH-23J	TMH-01J	M3 x 15		
TMH-04J	TMH-03J	IVIS X IS		
TMH-06J	TMH-07J	M3 x 20		
TMH-06	TMH-07	M4 05	1	
TMH-08	TMH-09	M4 x 25		
TMH-10	_	M4 05		
TMH-12	TMH-13	M4 x 35		

#### **Series**

Select the applicable holder/TMH for each speed controller from the below table.

#### **Metric Size**

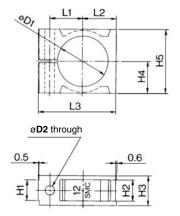
Tube size			Applical	ble tube		
Applicable	23	04	06	08	10	12
series	ø3.2	ø4	ø6	ø8	ø10	ø12
AS1002F	TMH-23J	TMH-04J	TMH-06J			
AS2002F		1 WIT-043	I MIH-003			
AS2052F			TMH-06	TMH-08		
AS3002F			TMH-07	I IVITI-UO	TMH-10	TMH-12
AS4002F					1 WIT1-10	TMH-13

Note) The applicable TMH for AS1002F-02 is not available.

#### **Inch Size**

111011 0120						
Tube size			Applical	ble tube		
Applicable	01	03	07	09	11	13
series	ø1/8"	ø5/32"	ø1/4"	ø5/16"	ø3/8"	ø1/2"
AS1002F	TMH-01J	TMH-03J	TMH-07J			
AS2002F		1 MH-033	I IVIT-U/J			
AS2052F			TMH-07	TMH-09		
AS3002F			I WITH-U7	1 MIH-09	TMU 10	
AS4002F					TMH-10	TMH-13

#### **Dimensions**



Mo	del		<b>D</b> 0	114	110	110	114	115	1.4			0
Metric size	Inch size	ø <b>D1</b>	ø <b>D2</b>	H1	H2	Н3	H4	H5	L1	L2	L3	Symbol
TMH-23J	TMH-01J	8.5	3.3	4.5	4.6	7.5	6	12	7.2	6.6	18	1/8J
TMH-04J	TMH-03J	9.4	ა.ა	4.5	4.0	7.5	0	12	1.2	0.0	10	4 5/32J
TMH-06J	-	11.7	3.3	6.3	6.4	9.3	7.7	15.4	8.5	8.3	21	6J
_	TMH-07J	12.1	3.3	0.3	0.4	9.3	7.7	15.4	0.5	0.3	21	1/4J
TMH-06	_	13.1										6
	TMH-07	13.5	4.3	7.1	7.2	11.1	10	20	11	10.6	26.5	1/4
TMH-08	TMH-09	15.5										8 5/16
TMH-10	_	18.8										10
TMH-12	_	21.2	4.3	9.5	9.6	13.5	14	28	14.2	14.6	34	12
_	TMH-13	22										1/2



## **⚠** 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)\*1), and other safety regulations.

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

Warning indicates a hazard with a medium level of Warning: 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.

#### **⚠** 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

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
  - 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.\*2)
  - 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.

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

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