Vacuum Pad/Bowl Shape with Non-slip Feature Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

Non-slip special ribs

Diagonal ribs are radially arranged to secure the gripping force in all directions.

- · Prevents workpiece slippage
- · Secure adsorbing and transferring are possible.

Bowl shape with excellent flexibility

Curved workpieces can also be adsorbed.

Horizontal holding force: 231 N (Pad diameter Ø 80)*1

Suitable for high-temperature workpieces (200 °C)*1 *1 For details, refer to the specifications on page 2.

Material: FS61 (Fluoro-based rubber) improves abrasion resistance

 More than twice the abrasion resistance of SMC's urethane pads

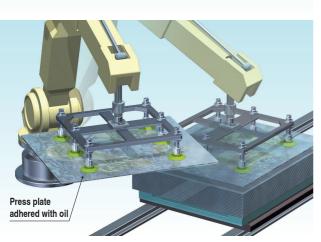
Suitable for workpieces with oil film

As oil is ejected to the grooves between special ribs, the lateral slipping of workpiece can be suppressed even on a steel plate with oil film.



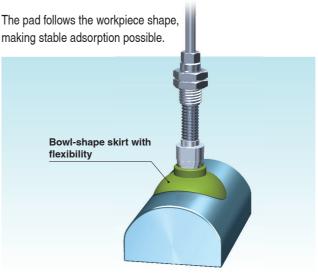
Workpiece adhered with oil

Stable transfer without slipping





The bowl shape can handle curved workpieces.





New

Mesh filter (Option)





- Reduced suction of foreign matter into the vacuum pump and ejector
- Detachable
- •Opening: 250 μm

Installation from below is possible.



Insert-molded pad to prevent the pad from falling out of the adapter

Variations

					Connectio	on		Vacuum inlet				
	Туре	Mounting	Vacuum inlet	Vacuum Size								
		mounting	direction	Туре	Pad diameter: Ø 32 to Ø 50	Pad diameter: Ø 63 to Ø 100	Туре	Pad diameter: Ø 32 to Ø 50	Pad diameter: Ø 63 to Ø 100			
With	adapter			Male	M10 x 1.0	M16 x 1.5	Male	Use the connection thread.				
				thread	G	1/4	thread	G	1/4			
		Direct			M14	x 1.0		M14	x 1.0			
			Vertical	Female thread	G	1/4	Female thread	G	1/4			
					G	3/8		G	3/8			
				Square adapter		1.8	Square adapter	□3	1.8			
With	buffer VAC	Plate	Vertical	Male	M18 x 1.5	M22 x 1.5	Female	M5 x 0.8	Pc1/8			
	VAC	mounting	Lateral	thread	WI 0 X 1.3	1.0	thread	W3 X 0.0	Rc1/8			



Vacuum Pad/Bowl Shape with **Non-slip Feature ZP3M** Series Male thread \odot How to Order Female thread Square adapter With adapter ZP3M – T 63 R FS A16 MF T 63 R FS JB 30 ZP3M-With buffer Bowl shape With buffer **2** Pad diameter **B** Material Vacuum inlet direction Vertical 32 Ø 32 Lateral 40 Ø 40 50 Ø 50

4 Buffer stroke

-	
Stroke	Pad size
[mm]	All sizes
10	•
30	•
50	

Symbol	Material	Colour
FS	FS61 (Fluoro-based rubber)	Green

Connection thread and type

Ø 63

Ø 80

Ø 100

63

80

100

			Pad di	ameter
Туре	Symbol	Size	Ø 32 to Ø 50	Ø 63 to Ø 100
	A10	M10 x 1.0	•	—
Male thread	A16	M16 x 1.5	—	
	AG02	G1/4	•	
	B14	M14 x 1.0	•	
Female thread	BG02	G1/4	•	
	BG03	G3/8	•	
Square adapter	S32	□31.8	•	
	Male thread	A10Male threadA16AG02B14Female threadBG02BG03BG03	A10 M10 x 1.0 Male thread A16 M16 x 1.5 AG02 G1/4 B14 M14 x 1.0 BG03 G3/8	A10 M10 x 1.0 Image: Mail of the state

Mesh filter unit

6 Mesh filter

MF

Part no.	Pad di	ameter
Fan no.	Ø 32 to Ø 50	Ø 63 to Ø 100
ZPMF-60-D13	•	—
ZPMF-60-D18	—	

None

With mesh filter

The adapter and pad are adhered to each other and cannot be disassembled.

Specifications

Pad Material

Material	FS61 (Fluoro-based rubber)
Colour of rubber	Green
Rubber hardness (Shore A: ±5°)	60
Operating temperature range*1	0 °C to 200 °C
Ambient temperature	0 °C to 150 °C

*1 Surface temperature of the workpiece to be adsorbed

Adapter Specifications

Connection	Male t	thread	Female	Square adapter				
Pad diameter	Ø 32 to Ø 50	Ø 63 to Ø 100	Ø 32 to Ø 50	Ø 63 to Ø 100	Ø 32 to Ø 100			
Size	M10 x 1.0 G1/4	M16 x 1.5 G1/4	G	x 1.0 1/4 3/8	□31.8			
Vacuum inlet		Use the con	nection thre	ad and type.				

Buffer Specifications

	Duner Spech	ications												
1	Pad dia	ameter	(0 32 to Ø 5	0	Ø 63 to Ø 100								
	Non-rotating	specification	JB: Rot	tating, With I	oushing	JB: Rotating, With bushing								
	Stroke	e [mm]	10	30	50	10	50							
	Connecti	on thread		M18 x 1.5		M22 x 1.5								
	Spring reactive	At 0 stroke		5.0		10.0								
	force	At full stroke	6.5	8.5	10.5	11.5	13.5	15.5						

Pad Specifications

Part no.	Horizontal hold	ling force [N]*1	Minimum curvature radius
Part no.	Without oil	With oil	for adsorption [mm]*2
ZP3M-T32RFS	47	21	14
ZP3M-T40RFS	81	53	15
ZP3M-T50RFS	111	74	20
ZP3M-T63RFS	170	108	27.5
ZP3M-T80RFS	231	178	36
ZP3M-T100RFS	387	224	46

*1 These are actual measurement values when flat workpieces were adsorbed and are not guaranteed values. (According to the SMC test) The values vary depending on the conditions (shape, surface roughness, oil type, oil amount, and other conditions) of the workpiece. *2 These are actual measurement values when cylindrical workpieces were adsorbed and are not guaranteed values. (According to the SMC test)

Mesh Filter Specifications

Mesh filter Opening 250 μm

Buffer assembly part no.	р. 7
--------------------------	------

ZP3M Series

Dimensions/Models

With	adap	ter D	Direct	moun	ting ty	/pe (N	lale t	hrea	d)											2
									,	ZP3	з М –	Т6	3 R	FS	5 - [A16	- N	IF	-	
				O-ring	ross flats		ection	Z						2				•		
	•			<u>J</u> Z	ross nais	<u> </u>	/	Width	across	flats K						8		Ø 32	diamete 005006	
ш				<	•											A10 A16 AG02	M10 x 1 M16 x 1 G1/4	.5	- -	- 0 0
↓ ↓		Pad diam	eter Ø A	t	ĭ ▼		```	Mesh	filter							AGUZ	un-	r ,		0
	Ø B'(Ma	Ø ax. diameter at		adsorption)																
	Vacuum	•	Model	2	6														Min. opening	Weight
	inlet	Pad diameter	Form	Material *1	Connection thread	4 Mesh filter	A	В	B '*2	С	D	E	F	G	Н	J	К	st*2	hole size of the adapter	[g]
		32			A10 AG02 A10		32	33.2	38.3	M10 x 1.0 G1/4 M10 x 1.0	6.5	14.3	23.8 24.1 27.3	20 25 20	17 22 17	20.4	5	6	Ø 5	16.1 24.5 17.3
		40			AG02 A10		40	41.3		G1/4 M10 x 1 0	6.5 7	17.8	27.6 28.9	20 25 20	22 17	21	5	8.4	Ø 5	25.7
ΖРЗМ	т	50 63	R	FS	AG02 A16	 MF	50 63.5	51.6 64.8		G1/4 M16 x 1.5		19.4 24.1	29.2 36.1	25 27	22 24	21.4 32.4	5 8	10.4 12	Ø 5 Ø 8	29.5 47.1
		80			AG02 A16 AG02		80.6			G1/4 M16 x 1.5 G1/4	6.5 9 6.5	27.1	35.6 39.1 38.6	27	24	33	8	14.4	Ø 6 Ø 8 Ø 6	46.7 61.3 60.9
		100			A16 AG02		100	102.2	113.4	M16 x 1.5 G1/4		33.9	45.9 45.4	27	24	34.4	8	20.1	Ø 8	96.7 100.4
		luoro-ba n pad dia			e of ads	orption,	st: The	stroke	is a gı	uide value	at the s	setting	vacuur	m pres	sure o	f –90 kl	Pa.			
With	adap	ter 🛙	Direct	moun	ting ty	/pe (F	emal	e thr	ead)										6	
		Ø		thread o	depth D oss flats I	4 0	41	7		ZP3	- M	T 6	3 R	FS	- E	314			8	
Î	_			ØJZ		<u>'</u> S	ection	_	across	flats K				2			4	9 .		
ш					_											3	M14		ad diamet 0 32 to 9 0	
ш , ,				ta de la constante de la const	5			Mesh	filter							BG02 BG03	2 G	1/4	0	
		Pad diam Ø																I		,
	Ø B'(M	ax. diameter a	t the time of a Model	adsorption)															Min.	
	Vacuum inlet direction	Pad diameter	Form	2 Material *1	3 Connection thread	4 Mesh filter	A	в	B '*2	С	D	Е	F	G	н	J	к	st*2	opening hole size of the adapter	Weight [g]
		32			B14 BG02 BG03		32	33.2	38.3	M14 x 1.0 G1/4 G3/8	8 11 11.4	14.3	31.6 33.6 34.1	23 20 26	19 17 22	20.4	5	6	Ø 5	20.9 19.1 26.3
		40			B14 BG02 BG03		40	41.3	47.8	M14 x 1.0		17.8	35.1 37.1 37.6	23 20 26	19 17 22	21	5	8.4	Ø 5	22.1 20.3 27.5
		50			B14 BG02		50	51.6	58.6	M14 x 1.0 G1/4	8 11	19.4	36.7 38.7	23 20	19 17 22	21.4	5	10.4	Ø 5	25.9 24.1
ZP3M	т	63	R	FS	BG03 B14 BG02	MF	63.5	64.8	73.3		11	24.1	39.2 41.6 42.6	26 23 22	19	32.4	8	12	Ø 8	31.3 42.2 42.5
		80			BG03 B14 BG02		80.6	81.8	92.2	G3/8 M14 x 1.0 G1/4	11.4 8 11	27.1	44.6 44.6 45.6	25 23 22	22 19	33	8	14.4	Ø 8	46.4 56.4 56.7
		100			BG03 B14 BG02 BC03		100	102.2	113.4	G3/8 M14 x 1.0 G1/4	11	33.9	47.6 51.4 52.4	25 23 22	22 19	34.4	8	20.1	Ø 8	60.5 92.3 92.6
	L	luoro-ba	·		BG03		I		I	G3/8	11.4	I	54.4	25	22	L		I	I	96.5

*1 FS: FS61 (Fluoro-based rubber)
*2 B': Maximum pad diameter at the time of adsorption, st: The stroke is a guide value at the setting vacuum pressure of -90 kPa.

SMC

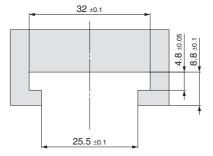
With adapter Direct mounting type (Square adapter) Θ ZP3M-T63 R FS-S32-MF □31.8 Ø 24 O-ring ŝ 4 Section Z ØEz C st Mesh filter Pad diameter Ø A ØВ Ø B' (Max. diameter at the time of adsorption) Model Min. Vacuum 0 0 3 opening Connection Α В **B**'*2 С D Ε st*2 Weight [g] inlet Pad Form Materia Mesh hole size of thread direction diameter *1 filter the adapter 32 32 33.2 38.3 14.3 26.3 20.4 6 Ø 5 26.1 40 40 41.3 47.8 17.8 29.8 21 8.4 Ø 5 27.3 50 50 51.6 58.6 10.4 Ø 5 31.1 19.4 31.4 21.4 ZP3M Т R FS S32 MF 63 63.5 64.8 73.3 24.1 36.8 32.4 12 Ø 8 48.7 80 80.6 81.8 92.2 27.1 39.8 33 14.4 Ø 8 62.8 100 100 102.2 113.4 33.9 46.6 34.4 20.1 Ø 8 97.4

Dimensions/Models

*1 FS: FS61 (Fluoro-based rubber)

*2 B': Maximum pad diameter at the time of adsorption, st: The stroke is a guide value at the setting vacuum pressure of -90 kPa.

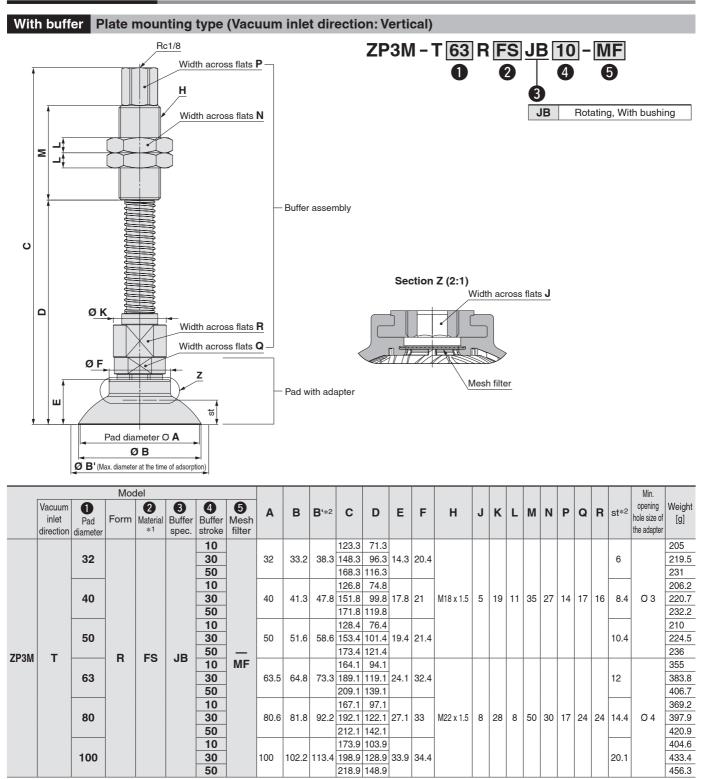
Square adapter mounting groove dimensions (Recommended)



* For details on how to use the square adapter, refer to "Mounting" on page 9.

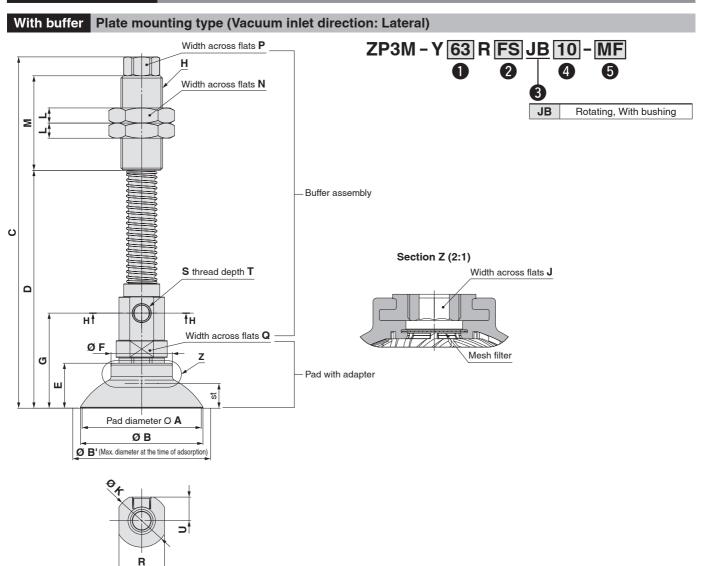
ZP3M Series

Dimensions/Models



*1 FS: FS61 (Fluoro-based rubber)

*2 B': Maximum pad diameter at the time of adsorption, st: The stroke is a guide value at the setting vacuum pressure of -90 kPa.



Dimensions/Models

H-H

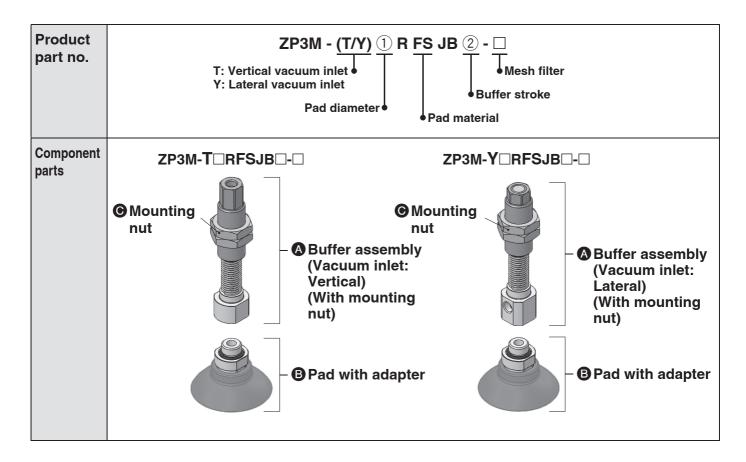
			Мс	del																									Min.		
	Vacuu inlet directio		Form	2 Material *1		4 Buffer stroke	5 Mesh filter	A	в	B '*2	с	D	Е	F	G	н	J	к	L	М	N	Ρ	Q	R	S	т	U		opening hole size of the adapter	Weight [g]	
						10					118.3																			203.2	
		32				30		32	33.2	38.3	143.3		14.3	20.4	33.7													6		219.1	
			-			50						119.3																		231.6	
		10				10					121.8 77.8 146.8 102.8 17.														_			~ -	204.4		
		40				30		40	41.3	47.8			17.8	21	37.2	M18 x 1.5	5	19	11	35	27	14	17	16	M5 x 0.8	5	8.5	8.4	Ø 5	220.3	
			-			50 10		50 51		6 58 6	166.8					-														232.8 208.2	
		50				30			51.6		123.4 148.4		10 /	01 /	20 0													10.4		206.2	
					FS JB	50		50	51.0	56.0	168.4		19.4	21.4	30.0													10.4		236.6	
ZP3	M Y		R	R FS		10	MF				161.1																			355.6	
		63				30		63.5	64.8	73.3	186.1		24.1	32.4	50.6													12		386.8	
						50			00		206.1	146.1																		411.7	
			1			10					164.1	104.1																_		369.7	
		80				30		80.6	81.8	92.2	189.1	129.1	27.1	33	53.6	M22 x 1.5	8	28	8	50	30	17	24	24	Rc1/8	_	12.5	14.4	Ø 8	400.9	
						50					209.1	149.1																		425.9	
			1			10					170.9	110.9																		405.2	
		100					30	_	100	102.2	113.4	195.9	135.9	33.9	34.4	60.4	.4												20.1		436.4
						50					215.9	155.9																		461.3	

*1 FS: FS61 (Fluoro-based rubber)

*2 B': Maximum pad diameter at the time of adsorption, st: The stroke is a guide value at the setting vacuum pressure of -90 kPa.



ZP3M Series Mounting Bracket Assembly



		Symbol	Pad diameter					
			32	40	50	63	80	100
Buffer assembly (With mounting nut)	②Buffer stroke	10 30 50	ZP3EB-(T/Y)1JB②			ZP3EB-(T/Y)2JB②		
B Pad with adapter	M10 x 1.0		ZP3M-T32RFS-A10-	ZP3M-T40RFS-A10-	ZP3M-T50RFS-A10-	—		
Brau with adapter	M16 x 1.5		—			ZP3M-T63RFS-A16-	ZP3M-T80RFS-A16-	ZP3M-T100RFS-A16-
Mounting nut	M18 x 1.5		ZPNA-M18			—		
(Single unit)	M22 x	M22 x 1.5		—		ZPNA-M22		

[Buffer assembly part number example] Product part no. ZP3M - T63RFS JB 10 Buffer assembly ZP3EB - T2 JB 10 2 Buffer s

2 Buffer stroke



ZP3M Series Vacuum Pad/Specific Product Precautions

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

Design

1. Before use, please check the transfer conditions with the customer's actual equipment.

The transfer ability varies depending on the workpiece material, the friction between the pad and workpiece, moment, wind, vibration, etc. Testing with the customer's actual equipment is necessary.

- 2. In cases where the workpieces are heavy or dangerous objects, etc., take measures to address a possible loss of adsorption force (installation of a drop prevention guide, etc.).
- 3. The oil, chemical, and other substances adhered to the workpiece may not be suitable for the pad material.

Before using this product, sufficiently verify the workpieces in your operating environment.

Mounting

1. When mounting the product, tighten with the tightening torque shown in the table below.

If excessive or insufficient tightening torque is applied, sealing failure or loose screws may result.

When using a product equipped with a buffer, if the buffer is tightened to a torque beyond the appropriate tightening torque range, the buffer may malfunction.

With Adapter (Male thread type)

Model	Connection thread size	Proper tightening torque [N·m]
ZP3M-T RFS-A10-	M10 x 1.0	8 to 10
ZP3M-T RFS-A16-	M16 x 1.5	13 to 15
ZP3M-T□RFS-AG02-□	G1/4	8 to 12

With Adapter (Female thread type)

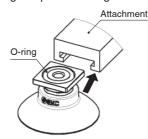
Model	Connection thread size	Proper tightening torque [N·m]	
ZP3M-T RFS-B14-	M14 x 1.0	11 to 13	
ZP3M-T RFS-BG02-	G1/4	8 to 12	
ZP3M-T RFS-BG03-	G3/8	15 to 20	

With Buffer

Model	Connection thread size	Proper tightening torque [N·m]
ZP3M-(T/Y)□RFS-JB□-□	M18 x 1.5	28 to 32
	M22 x 1.5	45 to 50

2. How to use the square adapter

Use the square adapter by inserting it to an attachment you prepare. If it is difficult to insert the square adapter, apply grease to the O-ring. Prepare retaining measures by yourself.



Handling

1. Depending on the type of oil or foreign matter, the mesh filter may be clogged at an early stage.

Before using this product, sufficiently verify the mesh filter in your operating environment.

2. Periodically inspect the mesh filter.

An adsorbing malfunction may be caused by the clogging of the mesh filter.

3. When the vacuum pad is pressed, make sure it stays within the stroke range.

If this product is used with a stroke exceeding the maximum stroke, the pad may be broken or may reach the end of its service life earlier.

- 4. Vacuum pads are consumable. Please replace them when cracks or deformation is confirmed during periodic maintenance.
- 5. The workpiece size must be equal to or greater than the minimum curvature radius for adsorption. If the workpiece size is smaller than the minimum curvature radius for adsorption, an adsorbing malfunction may occur.
- 6. As the adapter and pad are adhered to each other, they cannot be disassembled.
- 7. When adsorbing a plane, the pad skirt may be entrained depending on the workpiece with rough friction surface. Before using this product, sufficiently verify the adsorbing condition.

▲ 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:	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.

▲ 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

 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.

 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.

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. 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.

▲ 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

SMC Corporation (Europe)

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