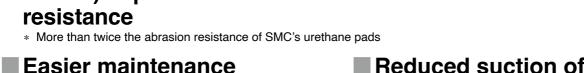
RoHS

Vacuum Pad

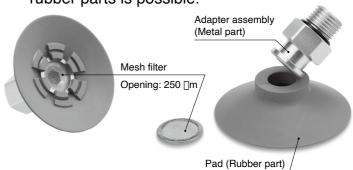
Flat type with ribs Bellows type \emptyset 20, \emptyset 25, \emptyset 32, \emptyset 40, \emptyset 50

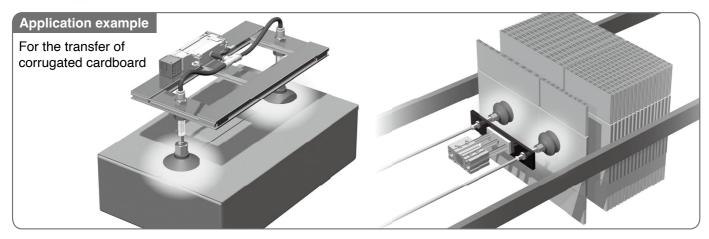
Suitable for the adsorption transfer of corrugated cardboard, etc., requiring abrasion resistance

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



- Compatible with 2 types of mounting tools 1 Mounting with a hexagon wrench
- Adapter (Male/Female thread) 2 Mounting with a standard wrench
- Reduced suction of foreign matter due to mesh filter
- Reduced suction of foreign matter into the vacuum pump and ejector
- The pad and mesh filter can be replaced without tools.
- The separation and disposal of the metal and rubber parts is possible.





ZP3C Series









Bellows type

How to Order

Pad unit

ZP3C - 20 CFS

With adapter

ZP3C - T 20 CFS - MF - A8

With buffer

ZP3C - T 20 CFS JB 10 - MF

Pad material: FS61

1 Vacuum inlet direction

_	Pad unit
Т	Vertical
Y *1	Lateral

*1 Only selectable for the type with a buffer

2 Pad diameter

• • • • •	
20	Ø 20
25	Ø 25
32	Ø 32
40	Ø 40
50	Ø 50

3 Pad form

С	Flat type with ribs
В	Bellows type

4 Buffer specifications

	p
JB	Rotating, With bushing

6 Buffer stroke

Daniel C	ti oito								
Stroke	Pad diameter [mm]								
[mm]	Ø 20 to Ø 32	Ø 40, Ø 50							
10	•	•							
20	•	_							
30	•	•							
50	_	•							

6 Mesh filter

-	Without mesh filter
MF	With mesh filter

7 Connection thread

Tuno	Thread	Cumbal	Size	Pad diameter [mm]							
Type	Tillead	Symbol	Size	Ø 20 to Ø 32	Ø 40, Ø 50						
		A8	M8 x 1	•							
	Male thread Female thread	A10	M10 x 1	_	•						
Direct		thread	thread	thread	thread	thread	thread	AG01	G1/8	•	_
mounting		AG02	G1/4	_	•						
		BG01	G1/8	•	_						
		BG02	G1/4	_	•						

^{*} Use the connection thread for the vacuum inlet.

Specifications

Pad/Mesh filter specifications

	Material	FS61 (Fluoro-based rubber)
Pad	Colour	Green
	Colour Green Hardness (Shore A: ±5°) 65	65
Mesh fi	lter	Opening: 250 [m

Adapter specifications

Connection	Male t	hread	Female thread			
Pad diameter	Ø 20 to Ø 32	Ø 40, Ø 50	Ø 20 to Ø 32	Ø 40, Ø 50		
Connection thread	M8 x 1 G1/8	M10 x 1 G1/4	G1/8 G1/4			
Vacuum inlet	Use the connection thread.					

Buffer specifications

	•											
Pad di	ameter	Ç	Ø 20 to Ø	32	Ø 40, Ø 50							
Non-rotating	specification	Rotating, With bushing										
Str	oke	10	20	30	10 30 50							
Connecti	on thread		M14 x 1		M18 x 1.5							
Spring reactive	At 0 stroke		3.0			5.0						
force [N]	At full stroke	4.5	5.0	5.2	6.5	8.5	10.5					

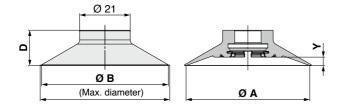
^{*} The mounting nut is shipped together with the product (unassembled).

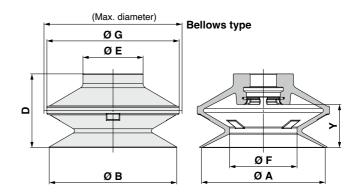


Single Unit

ZP3C-20CFS **1 2**

Flat type with ribs





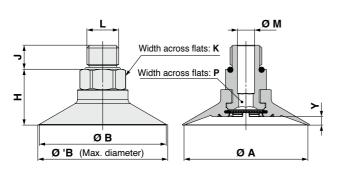
	Model																							
	Pad dia.	2 Pad form	*1 Pad material	A	В	'B *²	D	E	F	G	' G *2	Y	Weight [g]											
	20			21.4	23	23.3	10		_	_	_	2	2.2											
	25	С	С	С		26.4	28	28.4	10	15	_	_	_	2	2.7									
	32				С	С	С	С	С	С	С	С	С		31.4	33	33.5	11		_	_	_	2.5	3.5
	40												41.4	43	44.2	13.7	21	_	ı	_	2.5	7.9		
ZP3C	50							FS	51.4	52.7	53.9	14.7	21	_	_	_	3.5	11.6						
ZP3C	20		гэ	21.4	23	_	17	15	16	24	26	8	3.6											
	25	<u>.</u> В	В	В										26.4	28	_	20	17	18	29	31	11	5.7	
	32					31.4	33	_	21.8	17	18.5	35	37	12.8	8.4									
	40			41.4	43	_	28.7	24	25	45	47.5	16	17.7											
	50			51.4	53	_	30.7	25	28	55	57.5	18	26.6											

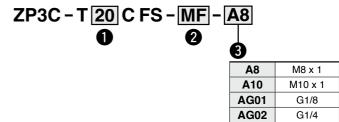
^{*1} FS: FS61 (Fluoro-based rubber)

^{*2} Achieved vacuum pressure: Reference at -85 [kPa]

Dimensions

With adapter Flat type with ribs/Male thread

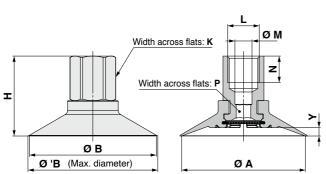




		Model											
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	2 Mesh filter	Connection thread	Н	J	К	L	M	Р	Weight [g]
		20					A8 20					6	8
		25				A8		6.5		M8 x 1	4		8.4
		32					21						9.2
		40				A10	22.2			M10 x 1	6		16.7
ZP3C	т	50	С	FS	-		23.2						20.5
ZF3C		20		5	MF		. 17						7.3
		25				AG01	17	7.5	14	G1/8	4	4	7.7
		32					18						8.5
		40				AG02	22.2	10	17	G1/4	7.4	6	18.2
		50				AGUZ	23.2	10	17	G1/4	7.1	0	21.9

^{*1} FS: FS61 (Fluoro-based rubber)

With adapter Flat type with ribs/Female thread



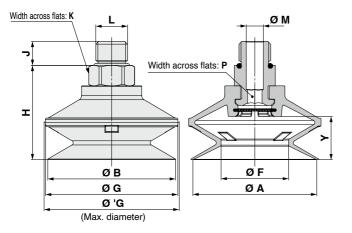
BG01	
BG01	G1/8
BG02	G1/4
	3 BG01

			Model										
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	2 Mesh filter	3 Connection thread	н	К	L	М	N	Р	Weight [g]
		20					04.5						8.2
		25				BG01	24.5	14	G1/8	4	7.4	4	8.6
ZP3C	T	32	С	FS	MF		25.5						9.4
		40			IVIE	BC02	32.2	47	G1/4	7.4	44		18.9
		50				BG02	33.2	17	G1/4	7.1	11	6	22.6

^{*1} FS: FS61 (Fluoro-based rubber)



With adapter Bellows type/Male thread



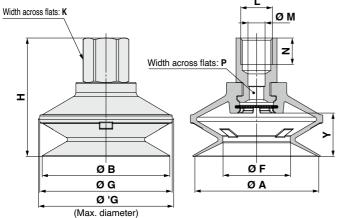


A8	M8 x 1
A10	M10 x 1
AG01	G1/8
AG02	G1/4

			Model										
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	2 Mesh filter	3 Connection thread	Н	J	К	L	М	Р	Weight [g]
		20					27						9.4
		25				A8	30		14	M8 x 1	4	4	11.4
		32					31.8	6.5					14.2
		40				A10	37.2		17	M10 x 1	6	6	26.5
ZP3C	т	50	В	FS	_	AIU	39.2		17	WITOXI	0	0	35.4
ZFJC	•	20		13	MF		24						8.7
		25				AG01	27	7.5	14	G1/8	4	4	10.7
		32					28.8						13.4
		40				AG02	37.2	10	17	G1/4	7.1	6	28.0
		50				AGUZ	39.2	10	17	U1/4	7.1		36.9

^{*1} FS: FS61 (Fluoro-based rubber)

With adapter Bellows type/Female thread



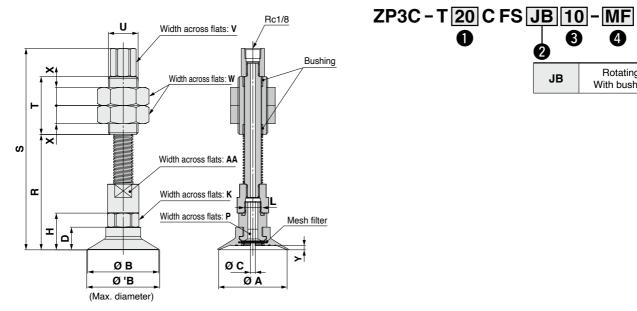
ZP3C - T 20 B FS - MF - B	G01 6	
	BG01	G1/8
	BG02	G1/4

			Model										
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	2 Mesh filter	3 Connection thread	Н	К	L	М	N	Р	Weight [g]
		20					31.5						9.6
		25				BG01	34.5	14	G1/8	4	7.4	4	11.6
ZP3C	T	32	В	FS	MF		36.3						14.4
		40			IVIE	BG02	47.2	17	G1/4	7.1	44	6	28.7
		50				BG02	49.2	17	G 1/4	7.1	11	0	37.6

^{*1} FS: FS61 (Fluoro-based rubber)

Dimensions

With buffer Flat type with ribs/Vacuum inlet direction: Vertical



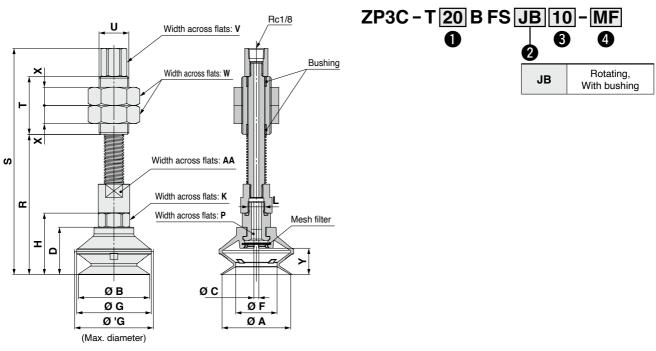
			Мс	del																	
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	Buffer spec.	3 Buffer stroke	4 Mesh filter	С	н	K	L	P	R	s	т	U	V	w	x	AA	Weight [g]
						10							66	111							81.4
		20				20							78	123							85.8
						30			20				91	136							90.6
						10			20				66	111							81.9
		25				20				14	M8 x 1	4	78	123	30	M14 x 1	12	19	4	13	86.2
						30							91	136							91
						10							67	112							82.7
ZP3C	T	32	С	FS	JB	20	MF	3	21				79	124							87.1
						30							92	137							91.8
						10							69.7	121.7							207.7
		40				30			22.2				94.7	146.7							222.2
						50				17	M10 x 1	6	114.7	166.7	35	M18 x 1.5	14	27	11	16	233.6
						10				' '	WITOXI		70.7	122.7	00	W110 X 1.5	'-	21	''	10	211.4
		50				30			23.2				95.7	147.7							225.9
						50							115.7	167.7							237.4

Rotating,

With bushing

^{*1} FS: FS61 (Fluoro-based rubber)

With buffer Bellows type/Vacuum inlet direction: Vertical



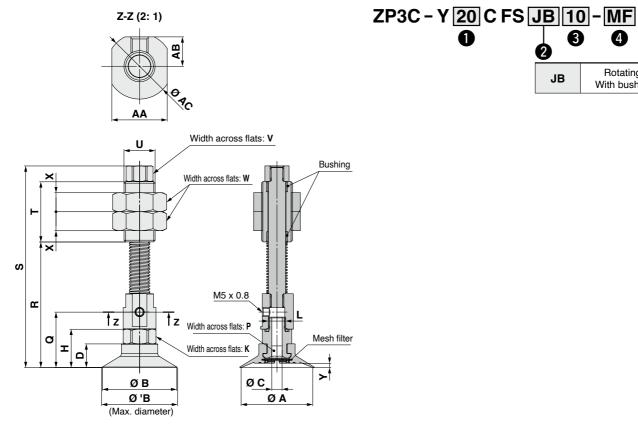
			Мс	del																	
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	Buffer spec.	3 Buffer stroke	4 Mesh filter	С	н	K	L	P	R	s	т	U	V	w	x	AA	Weight [g]
						10							73	118							82.8
		20				20			27				85	130							87.2
						30							98	143							92
						10							76	121							84.9
		25				20			30	14	M8 x 1	4	88	133	30	M14 x 1	12	19	4	13	89.3
						30							101	146							94
						10							77.8	122.8							87.6
ZP3C	T	32	В	FS	JB	20	MF	3	31.8				89.8	134.8							92
						30							102.8	147.8							96.7
						10							84.7	136.7							217.5
		40				30			37.2				109.7	161.7							232.0
						50				17	M10 x 1	6	129.7	181.7	35	M18 x 1.5	14	27	11	16	243.4
						10				' '	14110 7 1		86.7	138.7		W10 X 1.3	'-		''	10	226.4
		50				30			39.2				111.7	163.7							240.9
						50							131.7	183.7							252.3

^{*1} FS: FS61 (Fluoro-based rubber)

Dimensions

With buffer Flat type with ribs/Vacuum inlet direction: Lateral

Z-Z (2: 1)



			Мс	odel																				
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	Buffer spec.	3 Buffer stroke	4 Mesh filter	С	Н	K	L	P	Q	R	s	Т	U	٧	w	X	AA	ΑВ	AC	Weight [g]
						10								66	104									81.9
		20				20								78	116									87
						30			20				29	91	129									92.5
						10			20		M8		23	66	104		M14							82.4
		25				20		4		14	х	4		78	116	30	Х	12	19	4	14	6.5	15	87.4
						30					1			91	129		1							92.9
						10								67	105									83.2
ZP3C	Y	32	С	FS	JB	20	MF		21				30	79	117									88.2
						30								92	130									93.7
						10								72.7	116.7									206.1
		40				30			22.2				32.1	97.7	141.7									222.0
						50		6		17	M10 x	6		117.7	161.7	35	M18 x	14	27	11	16	8.5	10	234.5
						10		0		17	1	0		73.7	117.7	33	1.5	14	21	'''	10	0.5	19	209.8
		50				30			23.2				33.1	98.7	142.7									225.7
						50								118.7	162.7									238.2

Rotating,

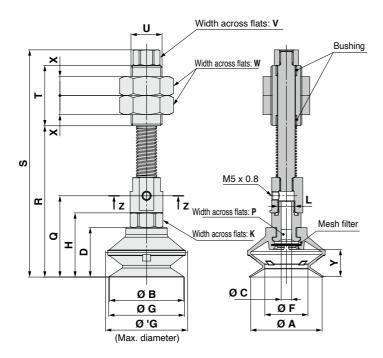
With bushing

JB

^{*1} FS: FS61 (Fluoro-based rubber)

With buffer Bellows type/Vacuum inlet direction: Lateral





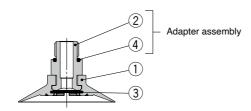
			Мс	odel																				
	Vacuum inlet direction	Pad dia.	Pad form	Pad material*1	Buffer spec.	3 Buffer stroke	4 Mesh filter	С	Н	K	L	P	Q	R	s	Т	U	V	w	X	AA	ΑВ	AC	Weight [g]
						10								73	111									83.3
		20				20			27				36	85	123									88.4
						30								98	136									93.8
						10					M8			76	114		M14							85.4
		25				20		4	30	14	х	4	39	88	126	30	х	12	19	4	14	6.5	15	90.4
						30					1			101	139		1							95.9
						10								77.8	115.8									88.1
ZP3C	Y	32	В	FS	JB	20	MF		31.8				40.8	89.8	127.8									93.1
						30								102.8	140.8									98.6
						10								87.7	131.7									215.8
		40				30			37.2				47.1	112.7	156.7									231.7
						50		6		17	M10	6		132.7	176.7	35	M18	14	27	11	16	8.5	10	244.3
						10		0] ' /	1	0		89.7	133.7	၁၁	1.5	14	21	11	10	0.5	19	224.8
		50				30			39.2				49.1	114.7	158.7									240.7
						50								134.7	178.7									253.2

^{*1} FS: FS61 (Fluoro-based rubber)

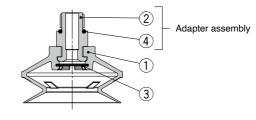
Vacuum Pad ZP3C Series Construction

With adapter

ZP3C-T□CFS-MF-A□

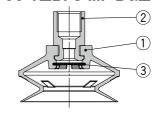


ZP3C-T□**CFS-MF-BG**□





ZP3C-T□**BFS-MF-A**□



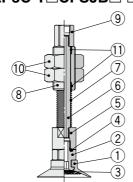


Component Parts

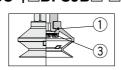
00111	ipononii i arto		
No.	Description	Material	Note
1	Pad	FS61 (Fluoro-based rubber)	Colour: Green
2	Adapter	Aluminium alloy (Clear anodised)	
3	Mesh filter	Stainless steel	With mesh filter
4	O-ring	NBR	

With buffer

ZP3C-T□**CFSJB**□-□



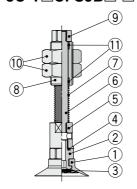
ZP3C-√BFSJB□-□



Component Parts

No.	Description	Material	Note
1	Pad	FS61 (Fluoro-based rubber)	Colour: Green
2	Adapter	Aluminium alloy (Clear anodised)	
3	Mesh filter	Stainless steel	With mesh filter
4	O-ring	NBR	
5	Adapter	Aluminium alloy (Clear anodised)	
6	Piston rod	Structural steel (Hard chrome plating)	
7	Return spring	Stainless steel	
8	Buffer body	Brass (Electroless nickel plating)	
9	Buffer adapter	Brass (Electroless nickel plating)	
10	Nut	Steel (Zinc chromated)	
11	Bushing	_	

ZP3C-Y□**CFSJB**□-□



Replacement Parts Mesh Filter Unit

Part number	Applicable pad dia.
ZPMF-60-D11	Ø 20 to Ø 32
ZPMF-60-D18	Ø 40, Ø 50

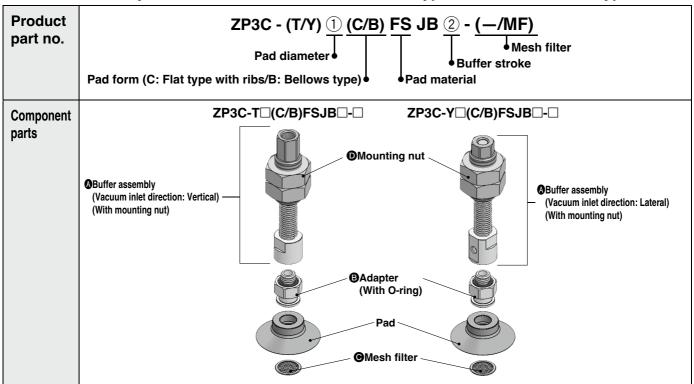
Vacuum Pad *ZP3C Series*Mounting Bracket Assembly

■ Adapter Assembly: Vacuum Inlet Direction Vertical T Type/ZP3C-T

Product part no.	ZP3C - T ① (C/B Pad diameter • Pad form (C: Flat type with ribs/B: Bellows type) •) FS — - ② Connection thread (Male/Female thread) Mesh filter Pad material
Component Parts	ZP3C-T□(C/B)FS-□-A□ Adapter (With O-ring) Pad BMesh filter	ZP3C-T (C/B)FSBG Pad Pad • Mesh filter

Symbol		1 Pad diameter symbol					
		Syllibol	20	25	32	40	50
unit) ead		M8 x 1	A8	ZP3CA-T3-A8 —		_	
gle unit	Male	M10 x 1	A10			ZP3CA-T4-A10	
Sing	Male thread M10 x 1 A10 — M10 x 1 A10 — M10 x 1 AG01 ZP3CA-T3-AG01 M10 x 1 AG02 — M10 x 1 AG02 — M10 x 1 AG02 AG02 M10 x 1 AG02 AG0		AG01	ZP3CA-T3-AG01		_	
oter (ZP3CA-T4-AG02			
Adapter Connec	Female	G1/8	BG01	ZP3CA-T3-BG01		-	
	thread	G1/4	BG02	_		ZP3CA-	Γ4-BG02
	B Mesh fil	ter (Single unit	zPMF-60-D11 ZPMF-60-D18		ZPMF-60-D11		60-D18

■ Buffer Assembly: Vacuum Inlet Direction Vertical T Type/ZP3C-T, Lateral Y Type/ZP3C-Y



Symbo		Cumbal	●Pad diameter symbol				
		Symbol	20	25	32	40	50
		10	•			•	
2Buffer stroke Stro	Chualca	20	•		_		
	Stroke	30	•		•		
		50	_			(•
ABuffer assembly (With mounting nut)		ZP3EB-(T/Y)JB②			ZP3EB-(T/Y)1JB②		
Adapter (Single unit)			ZP3CA-T3-A8 ZP3CA-T4-A			-T4-A10	
⊙ Mesh filter (Single ur	nit)		ZPMF-60-D11 ZPMF-60-		60-D18		
Mounting nut (Single unit) M14 x 1 M18 x 1.5		ZPNA-M14			_		
		M18 x 1.5	_			NT-05	

[Buffer assembly part number example]

Product part no. ZP3C - T 40CFS JB 10

Buffer assembly ZP3EB - T 1 JB 10

2 Buffer stroke





Series ZP3C Specific Product Precautions

Be sure to read this before handling the products.

For safety instructions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smc.eu

Mounting

 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)

trial reaptor (maio amount typo)					
Model	Connection thread size	Proper tightening torque [N·m]			
ZP3C-T□(C/B)FS-□-A8	M8 x 1	4.5 to 5.5			
ZP3C-T□(C/B)FS-□-A10	M10 x 1	8 to 10			
ZP3C-T□(C/B)FS-□-AG01	G1/8	3 to 5			
ZP3C-T□(C/B)FS-□-AG02	G1/4	8 to 12			

With Adapter (Female thread type

Model	Connection thread size	Proper tightening torque [N·m]	
ZP3C-T□(C/B)FS-□-BG01	G1/8	3 to 5	
ZP3C-T□(C/B)FS-□-BG02	G1/4	8 to 12	

With Buffer

Model	Connection thread size	Proper tightening torque [N·m]
ZP3C-(T/Y)(20 to 32)(C/B)FSJB□-□	G1/8	3 to 5
ZP3C-(T/Y)(40/50)(C/B)FSJB□-□	G1/4	8 to 12

Handling

 When adsorbing workpieces, such as cardboard, that have a tendency to allow vacuum pressure leakage, consider the drop in vacuum pressure due to leakage when selecting.

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.



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.

♠ Danger:

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

Marning:

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

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate 1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components.

ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.

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. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered. Products we manufacture and sell cannot be used for the

purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and **Disclaimer/Compliance** Requirements

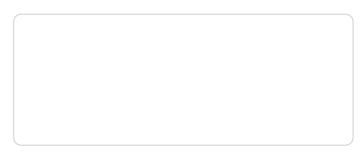
The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

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
- 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

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



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