

Vacuum Pad

RoHS

Flat type with ribs
Bellows type

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50

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

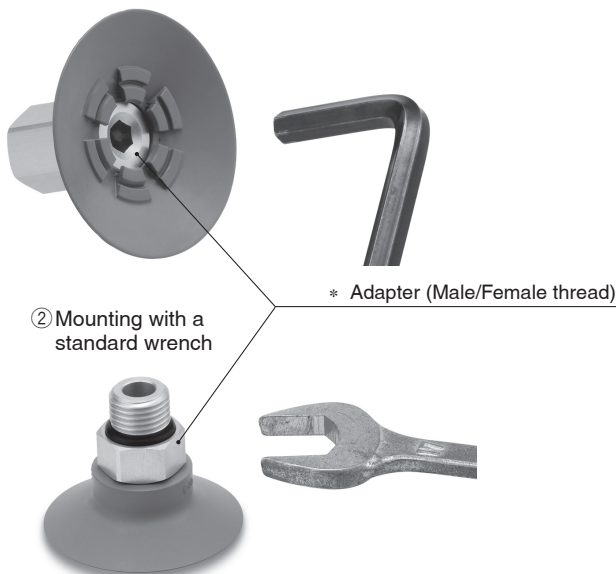
■ **Material: FS61 (Fluoro-based rubber) improves abrasion resistance**

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

■ **Easier maintenance**

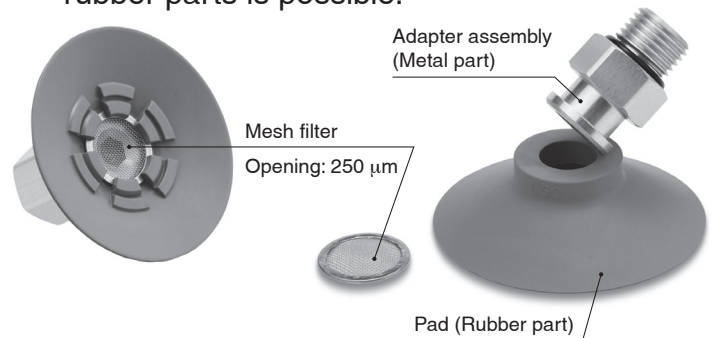
- Compatible with 2 types of mounting tools

① Mounting with a hexagon wrench



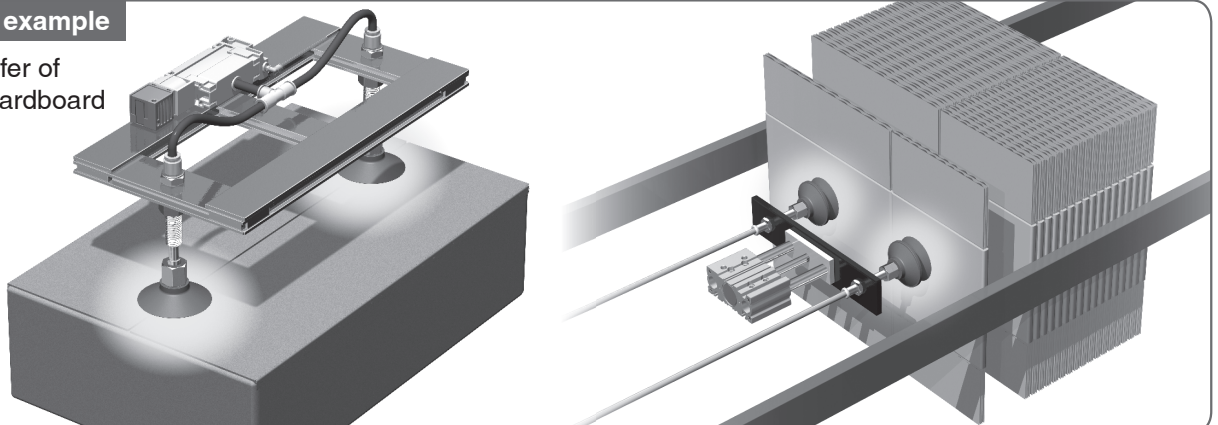
■ **Reduced suction of foreign matter due to mesh filter**

- 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.



Application example

For the transfer of corrugated cardboard



ZP3C Series

SMC

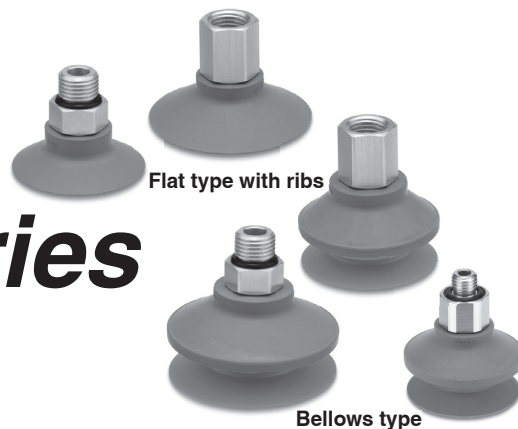
21-EU777-UK



Vacuum Pad

Flat Type with Ribs Bellows Type

ZP3C Series



How to Order

Pad unit	ZP3C-	20	C	FS			
With adapter	ZP3C-	T	20	C	FS	-MF-	A8
With buffer	ZP3C-	T	20	C	FS	JB	10-MF
		1	2	3	4	5	6

• Pad material: FS61

1 Vacuum inlet direction

—	Pad unit
T	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

C	Flat type with ribs
B	Bellows type

4 Buffer specifications

JB	Rotating, With bushing
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5 Buffer stroke

Stroke [mm]	Pad diameter [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

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

* Use the connection thread for the vacuum inlet.

Specifications

Pad/Mesh filter specifications

Pad	Material	FS61 (Fluoro-based rubber)
	Colour	Green
	Hardness (Shore A: ±5°)	60
Mesh filter		Opening: 250 µm

Adapter specifications

Connection	Male thread		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

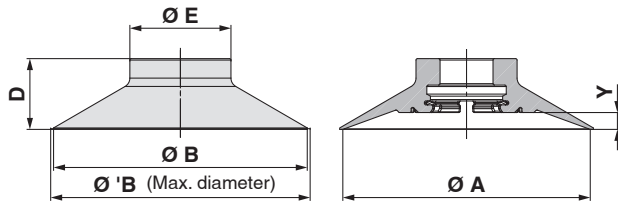
Pad diameter		Ø 20 to Ø 32			Ø 40, Ø 50		
Non-rotating specification		Rotating, With bushing					
Stroke		10	20	30	10	30	50
Connection thread		M14 x 1			M18 x 1.5		
Spring reactive force [N]	At 0 stroke	3.0			5.0		
	At full stroke	4.5	5.0	5.2	6.5	8.5	10.5

Dimensions

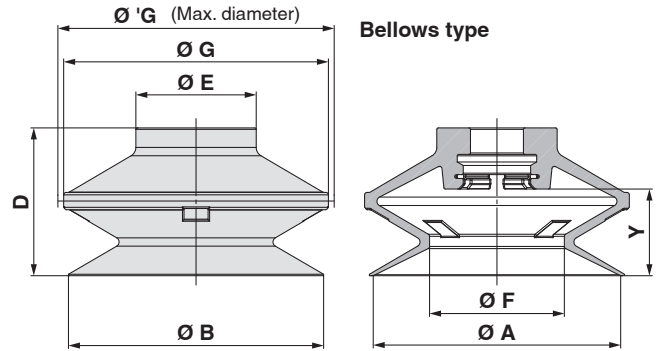
Single Unit

ZP3C - 20 C FS
1 2

Flat type with ribs



Bellows type



	Model			A	B	'B*2	D	E	F	G	'G*2	Y	Weight [g]
	❶ Pad dia.	❷ Pad form	*1 Pad material										
ZP3C	20	C	FS	21.4	23	23.3	10	15	—	—	—	2	2.2
	25			26.4	28	28.4			—	—	—		2.7
	32			31.4	33	33.5			11	—	—	—	2.5
	40			41.4	43	44.2	13.7	—	—	—	7.9		
	50			51.4	52.7	53.9	14.7	—	—	—	3.5	11.6	
	20	B		21.4	23	—	17	15	16	24	26	8	3.6
	25			26.4	28	—	20	17	18	29	31	11	5.7
	32			31.4	33	—	21.8		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]

ZP3C Series

Dimensions

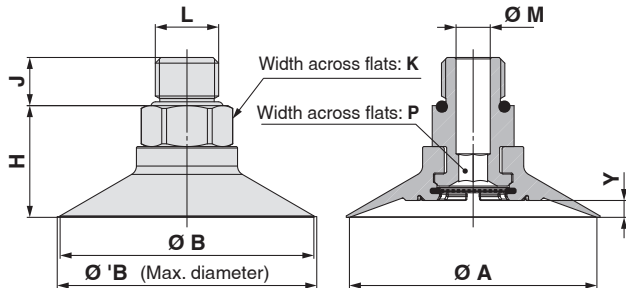
With adapter Flat type with ribs/Male thread

ZP3C - T **20** C FS - **MF** - **A8**

①

②

③



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

Model							H	J	K	L	M	P	Weight [g]
Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Mesh filter	③ Connection thread								
ZP3C	T	C	FS	— MF	A8	20	6.5	14	M8 x 1	4	4	4	8
						21							8.4
						22.2							9.2
						23.2							16.7
					A10	20	7.5	17	M10 x 1	6	6	6	20.5
						25							7.3
						28							7.7
						32							8.5
					AG01	20	10	17	G1/8	4	4	4	18.2
						25							21.9
						28							
						32							

*1 FS: FS61 (Fluoro-based rubber)

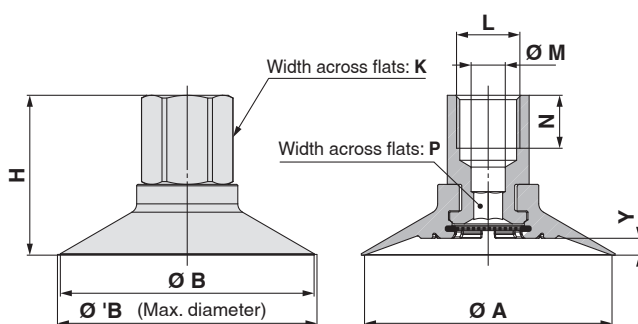
With adapter Flat type with ribs/Female thread

ZP3C - T **20** C FS - **MF** - **BG01**

①

②

③



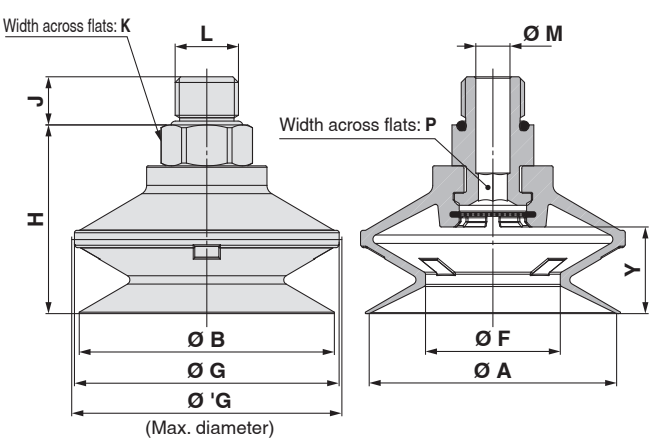
BG01	G1/8
BG02	G1/4

Model							H	K	L	M	N	P	Weight [g]
Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Mesh filter	③ Connection thread								
ZP3C	T	C	FS	— MF	BG01	20	24.5	14	G1/8	4	7.4	4	8.2
						25							8.6
						32							9.4
						40							18.9
					BG02	20	33.2	17	G1/4	7.1	11	6	22.6
						25							
						32							
						40							

*1 FS: FS61 (Fluoro-based rubber)

Dimensions

With adapter Bellows type/Male thread



ZP3C - T **20** B FS - **MF** - **A8**

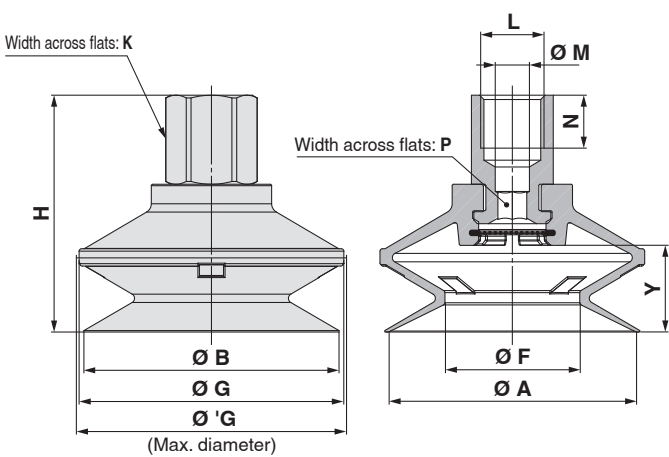
① ② ③

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

Model							H	J	K	L	M	P	Weight [g]	
	Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Mesh filter	③ Connection thread								
ZP3C	T	20	B	FS	— MF	A8	27	6.5	14	M8 x 1	4	4	9.4	
		25					30						11.4	
		32					31.8						14.2	
		40				A10	37.2		17	M10 x 1	6	6	26.5	
		50					39.2						35.4	
		20					24	7.5		14	G1/8	4	4	8.7
		25				AG01	27							10.7
		32					28.8							13.4
		40				AG02	37.2	G1/4	7.1	6	6	28.0		
		50					39.2					36.9		

*1 FS: FS61 (Fluoro-based rubber)

With adapter Bellows type/Female thread



ZP3C - T **20** B FS - **MF** - **BG01**

① ② ③

BG01	G1/8
BG02	G1/4

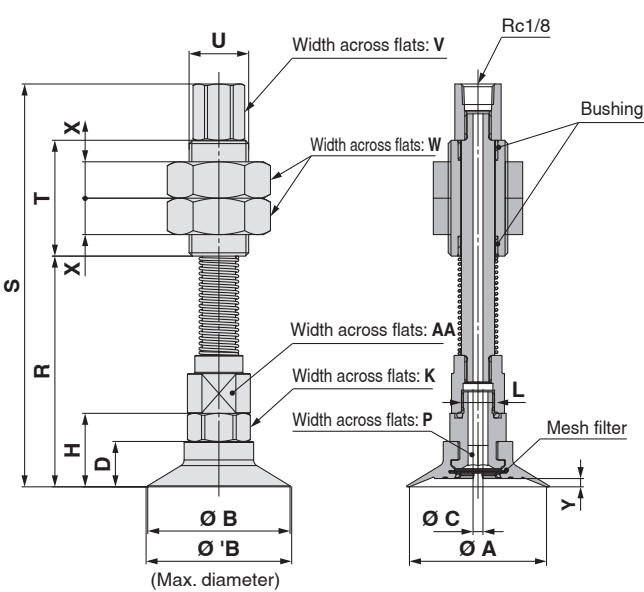
Model							H	K	L	M	N	P	Weight [g]
	Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Mesh filter	③ Connection thread							
ZP3C	T	20	B	FS	— MF	BG01	31.5	14	G1/8	4	7.4	4	9.6
		25					34.5						11.6
		32					36.3						14.4
		40				BG02	47.2	17	G1/4	7.1	11	6	28.7
		50					49.2						37.6

*1 FS: FS61 (Fluoro-based rubber)

ZP3C Series

Dimensions

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



ZP3C - T **20** C FS **JB** **10** - **MF**

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③

④

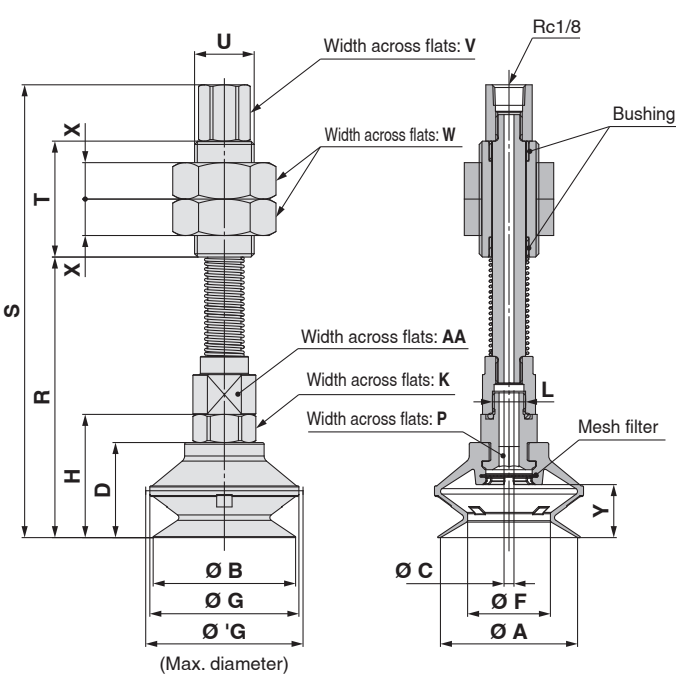
JB	Rotating, With bushing
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	Model							C	H	K	L	P	R	S	T	U	V	W	X	AA	Weight [g]										
	Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Buffer spec.	③ Buffer stroke	④ Mesh filter																								
ZP3C	T	20	C	FS	JB	10	MF	3	20	14	M8 x 1	4	66	111	30	M14 x 1	12	19	4	13	81.4										
						20							78	123							85.8										
						25							30	91							136	90.6									
														10							66	111	81.9								
														20							78	123	86.2								
														30							91	136	91								
														32							20	67	112	82.7							
																						79	124	87.1							
						92							137									91.8									
						10							22.2									17	M10 x 1	6	69.7	121.7	35	M18 x 1.5	14	27	11
						20								94.7							146.7				220.2						
						30								114.7							166.7				231.7						
		40	50	70.7	122.7	209.4																									
				95.7	147.7	224																									
				115.7	167.7	235.4																									
				50																											

*1 FS: FS61 (Fluoro-based rubber)

Dimensions

With buffer Bellows type/Vacuum inlet direction: Vertical



ZP3C - T **20** B FS **JB** **10** - **MF**

1

2

3

4

JB	Rotating, With bushing
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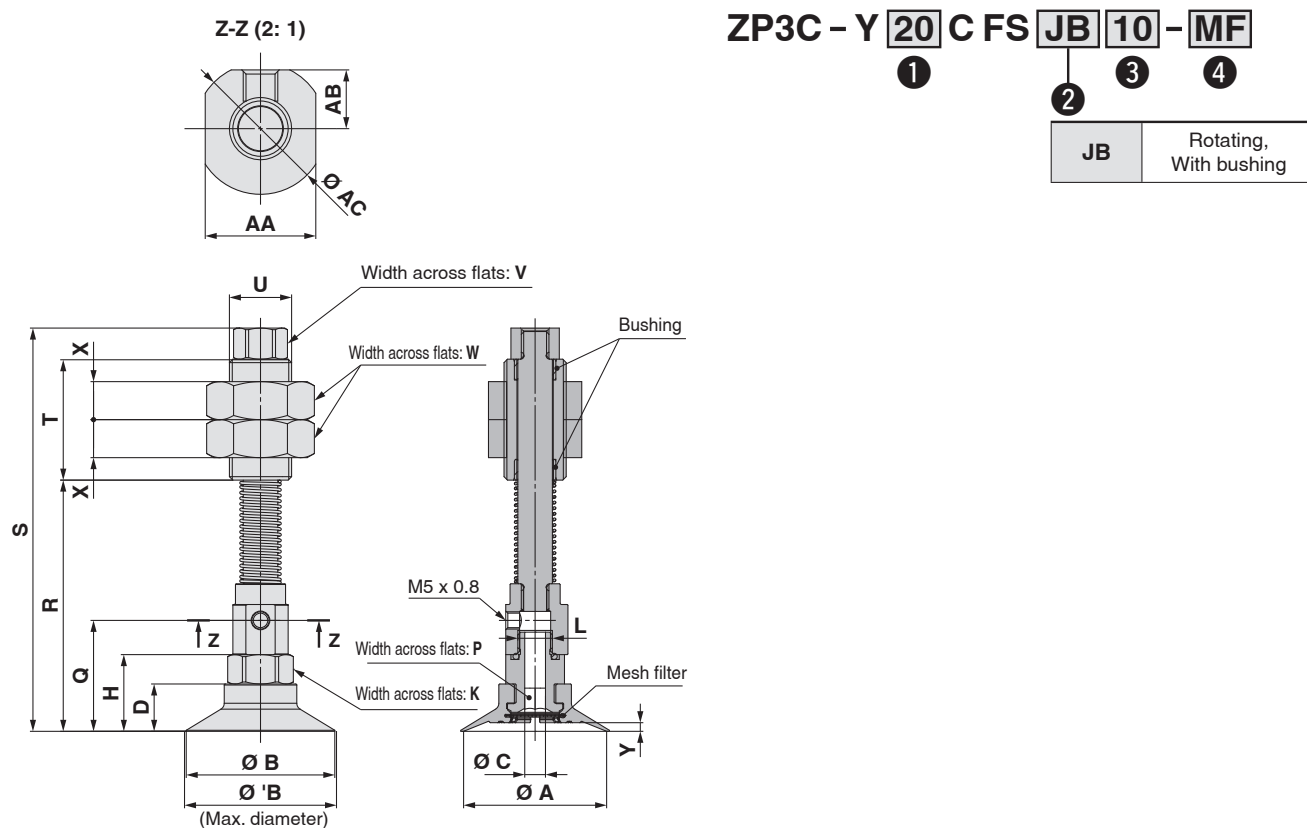
Model								C	H	K	L	P	R	S	T	U	V	W	X	AA	Weight [g]	
Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Buffer spec.	③ Buffer stroke	④ Mesh filter																
ZP3C	T	20	B	FS	JB	10	— MF	3	27	14	M8 x 1	4	73	118	30	M14 x 1	12	19	4	13	82.8	
						20							85	130							87.2	
						25							30	98							143	92
													10	76							121	84.9
													20	88							133	89.3
													30	101							146	94
		32						10	77.8	122.8	87.6											
								20	89.8	134.8	92											
						30		102.8	147.8	96.7												
						40		10	84.7	136.7	35	M18 x 1.5	14	27	11	16	215.4					
								30	109.7	161.7							230					
								50	129.7	181.7							241.4					
		50						10	86.7	138.7							224.3					
								30	111.7	163.7							238.8					
								50	131.7	183.7							250.3					

*1 FS: FS61 (Fluoro-based rubber)

ZP3C Series

Dimensions

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

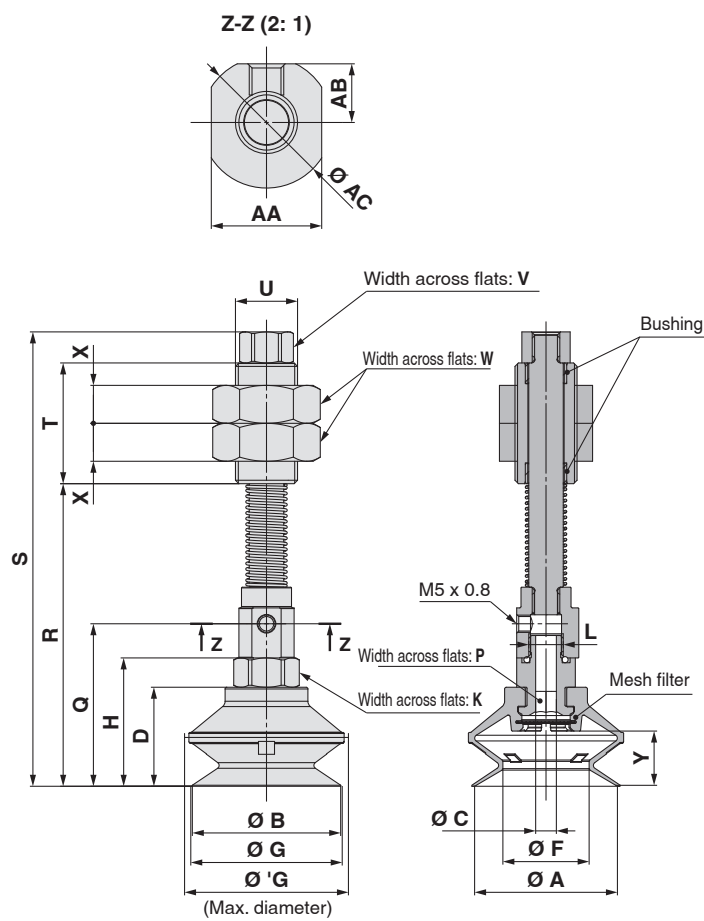


Model								C	H	K	L	P	Q	R	S	T	U	V	W	X	AA	AB	AC	Weight [g]
Vacuum inlet direction	① Pad dia.	Pad form	Pad material ^[*1]	② Buffer spec.	③ Buffer stroke	④ Mesh filter																		
ZP3C	Y	20	C	FS	JB	10	MF	4	20	14	M8 x 1	4	29	66	104	30	M14 x 1	12	19	4	14	6.5	15	81.9
						20								87										
		30				92.5																		
		10				82.4																		
		20				87.4																		
		30				92.9																		
		10				83.2																		
		20				88.2																		
		25				30		93.7																
						10		203.8																
		32				20		219.8																
						30		232.2																
		40				10		207.5																
						30		223.4																
		50				10		236																
						30																		
6	22.2	17	M10 x 1	6	32.1	72.7	116.7	35	M18 x 1.5	14	27	11	16	8.5	19									
						97.7	141.7																	
						117.7	161.7																	
						73.7	117.7																	
	23.2				33.1	98.7	142.7																	
						118.7	162.7																	

*1 FS: FS61 (Fluoro-based rubber)

Dimensions

With buffer Bellows type/Vacuum inlet direction: Lateral



ZP3C - Y **20** B FS **JB** **10** - **MF**

①

②

③

④

JB

Rotating,
With bushing

Model								C	H	K	L	P	Q	R	S	T	U	V	W	X	AA	AB	AC	Weight [g]												
Vacuum inlet direction	① Pad dia.	Pad form	Pad material*1	② Buffer spec.	③ Buffer stroke	④ Mesh filter																														
ZP3C	Y	20	B	FS	JB	10	— MF	4	27	14	M8 x 1	4	36	73	111	30	M14 x 1	12	19	4	14	6.5	15	83.3												
						20								85	123									88.4												
						30								98	136									93.8												
		25				10							30	40.8	47.1									35	M18 x 1.5	14	27	11	16	8.5	19	213.6				
																																	20	76	114	85.4
																																	88	126	90.4	
		32				10		30	6	37.2	17	M10 x 1	6	49.1	101	139	95.9																			
															77.8	115.8	88.1																			
															89.8	127.8	93.1																			
														50	10	30	39.2	17	M10 x 1	6	49.1	102.8	140.8	98.6												
																						87.7	131.7	213.6												
																						112.7	156.7	229.5												
																					40	10	30	39.2	17	M10 x 1	6	49.1	132.7	176.7	242					
																													89.7	133.7	222.5					
																													114.7	158.7	238.4					
50	10	30	39.2	17	M10 x 1	6	49.1	134.7	178.7	251																										

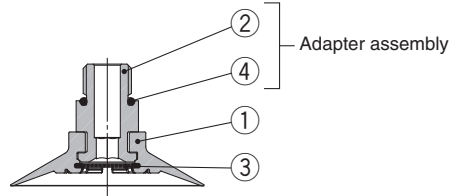
*1 FS: FS61 (Fluoro-based rubber)

Vacuum Pad **ZP3C Series**

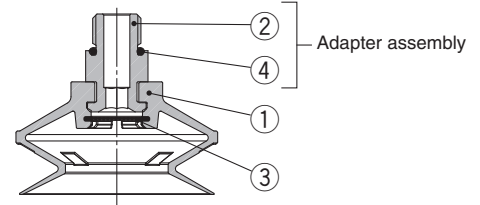
Construction

With adapter

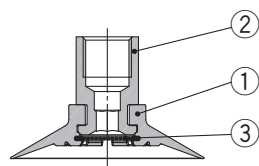
ZP3C-T□CFS-MF-A□



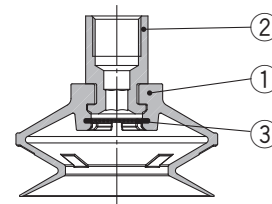
ZP3C-T□BFS-MF-A□



ZP3C-T□CFS-MF-BG□



ZP3C-T□BFS-MF-BG□

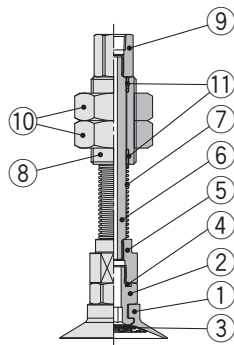


Component Parts

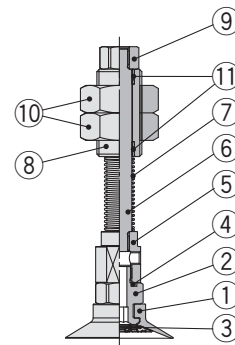
No.	Description	Material	Note
1	Pad	FS61 (Fluoro-based rubber)	Colour: Green
2	Adapter	Aluminium alloy (Clear anodised)	
3	Mesh filter	Stainless steel	With mesh filter
4	O-ring	NBR	

With buffer

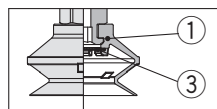
ZP3C-T□CFSJB□-□



ZP3C-Y□CFSJB□-□



ZP3C-Y□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	—	

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) FS □ - ② Pad diameter • • Connection thread (Male/Female thread) Pad form (C: Flat type with ribs/B: Bellows type) • • Mesh filter • Pad material	
Component Parts	ZP3C-T□(C/B)FS-□-A□ ① Adapter (With O-ring) Pad ② Mesh filter ZP3C-T□(C/B)FS-□-BG□ ① Adapter Pad ② Mesh filter	

				Symbol	① Pad diameter symbol				
					20	25	32	40	50
① Adapter (Single unit)	② Connection thread	Male thread	M8 x 1	A8	ZP3CA-T3-A8			—	
			M10 x 1	A10	—			ZP3CA-T4-A10	
			G1/8	AG01	ZP3CA-T3-AG01			—	
			G1/4	AG02	—			ZP3CA-T4-AG02	
	Female thread	G1/8	BG01	ZP3CA-T3-BG01			—		
		G1/4	BG02	—			ZP3CA-T4-BG02		
③ Mesh filter (Single unit)				ZPMF-60-D11			ZPMF-60-D18		

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

Product part no.	ZP3C - (T/Y) ① (C/B) FS JB ② - (—/MF) Pad diameter Pad form (C: Flat type with ribs/B: Bellows type) Pad material Buffer stroke Mesh filter	
Component parts	ZP3C-T□(C/B)FSJB□-□ ZP3C-Y□(C/B)FSJB□-□ ① Buffer assembly (Vacuum inlet direction: Vertical) (With mounting nut) ② Buffer assembly (Vacuum inlet direction: Lateral) (With mounting nut) ③ Adapter (With O-ring) ④ Pad ⑤ Mesh filter	

		① Pad diameter symbol				
		20	25	32	40	50
② Buffer stroke	Stroke	10	●		●	
		20	●		—	
		30	●		●	
		50	—		●	
③ Buffer assembly (With mounting nut)		ZP3EB-(T/Y)JB ②			ZP3EB-(T/Y)1JB ②	
④ Adapter (Single unit)		ZP3CA-T3-A8			ZP3CA-T4-A10	
⑤ Mesh filter (Single unit)		ZPMF-60-D11			ZPMF-60-D18	
⑥ Mounting nut (Single unit)	M14 x 1	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.

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]
ZP3C-T□(C/B)FS-□-A8	M8 x 1	1.5 to 2.0
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

1. 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.

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.

Danger:

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

Warning:

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

Caution:

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

- 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.
etc.

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. 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.

Caution

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 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.

Safety Instructions

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

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