Vacuum Pad ZP3P Series



ø20, ø25, ø35, ø50

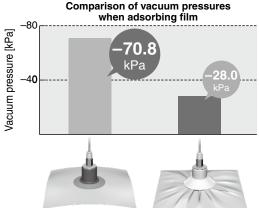
Good for film packaging applications

■ This product is made of materials compliant with FDA (USA Food and Drug Administration) regulations as well as Food Sanitation Act standards.

Blue colored pad Easy to distinguish the vacuum pad by color during contamination inspection

Reduced leakage

Sealing skirt design, better sealing performance even for thin films



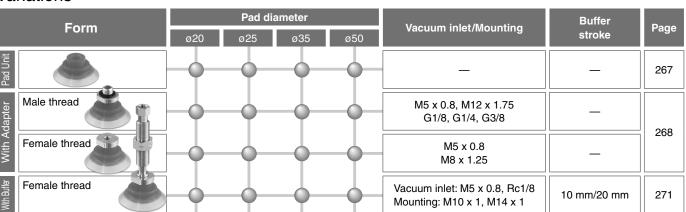
Pad for film packaging application Flat type pad/Flat type pad with ribs

Reduction of wrinkles made on thin workpieces (film, vinyl, etc.) during adsorption

Wrinkle prevention with the stopper in the center of the vacuum pad



Variations



Mark-free Multistage 팀

For Disk Adsorption

Ball Spline Buffer



Vacuum Pad

Pad diameter Ø20, Ø25, Ø35, Ø50

How to Order

Pad unit

ZP3P-20 PT SF

Pad diameter

Mounting Bracket Part Nos.

Adapter Assembly	p. 275
Buffer Assembly	p. 275

Symbol	Pad diameter
20	ø20
25	ø25
35	ø35
50	ø50

Pad material

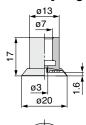
<u> </u>	a material
Symbol	Material
SF	Silicone rubber*1, *2

- *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"

 *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959).

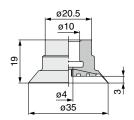
Dimensions: Pad Unit

ZP3P-20PTSF [Weight: 1.8 g]





ZP3P-35PTSF [Weight: 4.7 g]



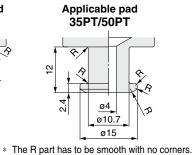


Pad Mounting Dimensions If an adapter will be made by the customer, design the adapter with the dimensions shown below.

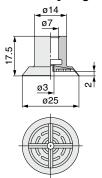
ø7.5

Applicable pad 20PT/25PT

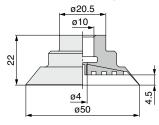
ø8.5

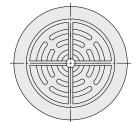


ZP3P-25PTSF [Weight: 2.2 g]



ZP3P-50PTSF [Weight: 12.4 g]







Brac

How to Order



ZP3P __-T<u>20</u> PT<u>SF</u>-<u>A5</u>

Adapter material

Symbol	Material
Nil	Aluminum
S	Stainless steel (Stainless steel 304)

Pad diameter

Symbol	Pad diameter
20	ø20
25	ø25
35	ø35
50	ø50

Pad material

Symbol	Material
SF	Silicone rubber*1, *2
*1 Co	mpliant with the EDA (LISA Food and Drug Administration) regulation

- 1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959).

♦ Mounting thread size

Туре	Symbol	Size	ø 20	ø 25	ø 35	ø 50
d	A5	M5 x 0.8	•	•	_	_
Male thread	A12	M12 x 1.75	_	_	•	•
th	AG1	G1/8	•	•	_	_
lale	AG2	G1/4	_	_	•	•
Σ	AG3	G3/8	_	_	•	•
Female thread	B5	M5 x 0.8	•	•	_	_
Fen	B8	M8 x 1.25	_	_	•	•

* The pad is shipped together but does not come assembled.

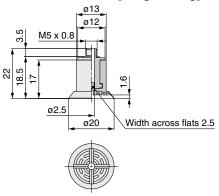
Mounting

When mounting the male thread adapter, be sure to tighten using the recommended tightening torque in the chart on the right. Tightening outside of the recommended tightening torque range may result in sealing failure or loosening of the thread.

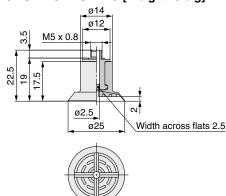
Product part number	Connection thread size	Proper tightening torque [N·m]
ZP3P□-T□PTSF-A5	M5 x 0.8	1.2 to 1.6
ZP3P□-T□PTSF-A12	M12 x 1.75	3 to 5
ZP3P□-T□PTSF-AG1	G1/8	3 to 5
ZP3P□-T□PTSF-AG2	G1/4	8 to 12
ZP3P□-T□PTSF-AG3	G3/8	15 to 20

Dimensions: With Male Thread Adapter

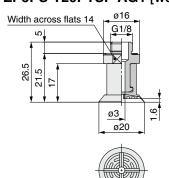
ZP3P-T20PTSF-A5 [Weight: 3.9 g] ZP3PS-T20PTSF-A5 [Weight: 7.6 g]



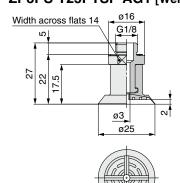
ZP3P-T25PTSF-A5 [Weight: 4.3 g] ZP3PS-T25PTSF-A5 [Weight: 8.0 g]



ZP3P-T20PTSF-AG1 [Weight: 5.9 g] ZP3PS-T20PTSF-AG1 [Weight: 13.1 g]



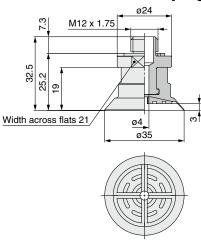
ZP3P-T25PTSF-AG1 [Weight: 6.3 g] ZP3PS-T25PTSF-AG1 [Weight: 13.5 g]



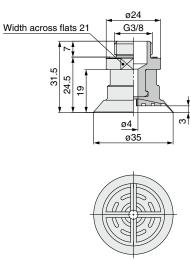
Vacuum Pad **ZP3P** Series

Dimensions: With Male Thread Adapter

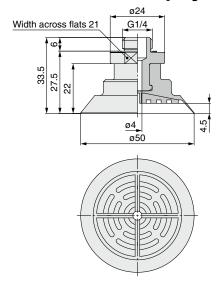
ZP3P-T35PTSF-A12 [Weight: 20.7 g] ZP3PS-T35PTSF-A12 [Weight: 48.3 g]



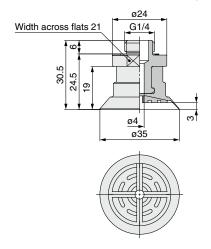
ZP3P-T35PTSF-AG3 [Weight: 21.1 g] ZP3PS-T35PTSF-AG3 [Weight: 48.8 g]



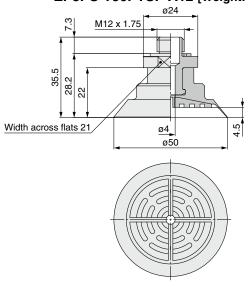
ZP3P-T50PTSF-AG2 [Weight: 22.2 g] ZP3PS-T50PTSF-AG2 [Weight: 39.8 g]



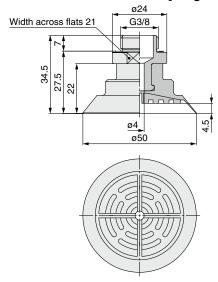
ZP3P-T35PTSF-AG2 [Weight: 14.5 g] ZP3PS-T35PTSF-AG2 [Weight: 32.1 g]



ZP3P-T50PTSF-A12 [Weight: 28.4 g] ZP3PS-T50PTSF-A12 [Weight: 56.0 g]



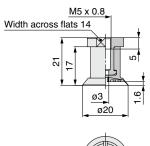
ZP3P-T50PTSF-AG3 [Weight: 28.8 g] ZP3PS-T50PTSF-AG3 [Weight: 56.5 g]





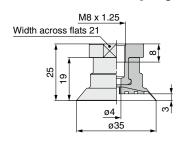
Dimensions: With Female Thread Adapter

ZP3P-T20PTSF-B5 [Weight: 4.9 g] ZP3PS-T20PTSF-B5 [Weight: 10.5 g]



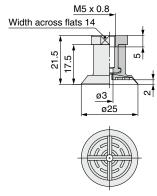


ZP3P-T35PTSF-B8 [Weight: 13.2 g] ZP3PS-T35PTSF-B8 [Weight: 28.7 g]

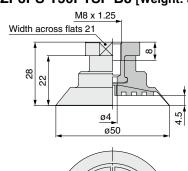


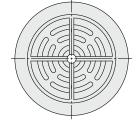


ZP3P-T25PTSF-B5 [Weight: 5.3 g] ZP3PS-T25PTSF-B5 [Weight: 10.9 g]



ZP3P-T50PTSF-B8 [Weight: 20.9 g] ZP3PS-T50PTSF-B8 [Weight: 36.4 g]





How to Order Vertical vacuum inlet **ZP3P-T20PTSFJ10-B5** With buffer Pad diameter Symbol Pad diameter 20 ø20 25 ø25 35 ø35 50 ø50 Vacuum inlet Pad material Type Symbol ø20, ø25 | ø35, ø50 Symbol Material **B**5 M5 x 0.8 Female SF Silicone rubber*1, *2 thread Rc1/8 *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use" *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking appara-• Stroke (■) tus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Buffer specification Symbol Stroke ø**20**, ø**25** | ø**35**, ø**50** Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food

Specifications

Pad diameter	Buffer specification	Ctroka [mm]	Tightening torque	Connection thread	Spring reactive force [N]	
Fau diameter	buller specification	Suffer specification Stroke [mm] Stroke [mm] Connection thread	At 0 stroke	At full stroke		
ø 20, ø 25	J/K	10, 20	2.5 to 3.5	M10 x 1	1.0	3.0
ø 35 , ø 50	J/K	10, 20	6.5 to 7.5	M14 x 1	2.0	5.0

Rotating

Non-rotating

10

20

10 mm

20 mm

■ Be sure to read this before handling the products. Refer to page 375 for safety instructions. For vacuum equipment and vacuum pad precautions, refer to pages 376 to 379.

Operating Precautions

and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959).

⚠ Caution

1. When selecting a buffer

Buffers come with general industrial grease applied to them and are therefore not compliant with FDA regulations. Metal wear particles will be generated due to the sliding motion of the buffer. Please take this into consideration when deciding whether this pad is suitable for your application.

Dimensions: With Buffer

ZP3P-T20PTSFJ■-B5 M5 x 0.8 Width across flats 8 Width across flats 14 m M10 x 1 Gasket M5 x 0.8 Width across 7 ø2.5 ø20 **Dimensions**

32.5

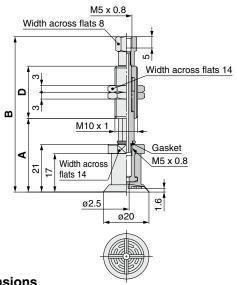
42.5

68.5

106.5

23

ZP3P-T20PTSFK■-B5



Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T20PTSFK10-B5	32.5	68.5	23	28.5
ZP3P-T20PTSFK20-B5	42.5	106.5	51	41.8

Part no.

ZP3P-T20PTSFJ10-B5

ZP3P-T20PTSFJ20-B5

Weight [g]

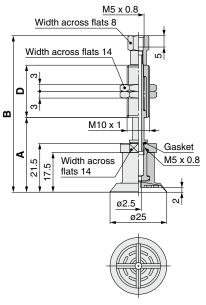
26.7

^{*} The pad and mounting nut are shipped together but do not come assembled.

Precautions

Dimensions: With Buffer

ZP3P-T25PTSFJ■-B5

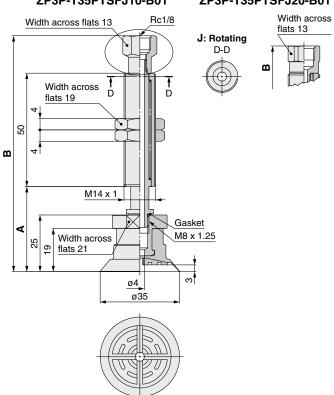


Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T25PTSFJ10-B5	33	69	23	27.1
ZP3P-T25PTSFJ20-B5	43	107	51	41.2

ZP3P-T35PTSFJ■-B01

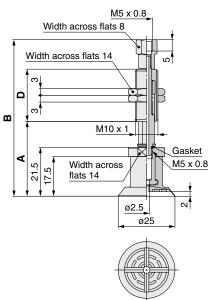
ZP3P-T35PTSFJ10-B01 ZP3P-T35PTSFJ20-B01



Dimensions

Part no.	Α	В	Weight [g]
ZP3P-T35PTSFJ10-B01	37.5	104	93.6
ZP3P-T35PTSFJ20-B01	47.5	109.5	94.6

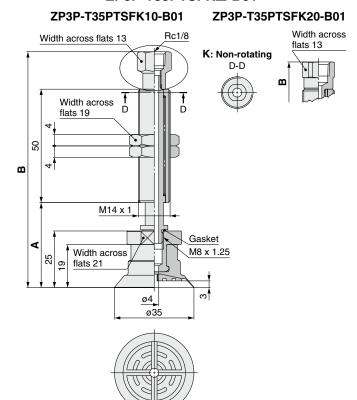
ZP3P-T25PTSFK■-B5



Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T25PTSFK10-B5	33	69	23	28.5
ZP3P-T25PTSFK20-B5	43	107	51	42.2

ZP3P-T35PTSFK■-B01



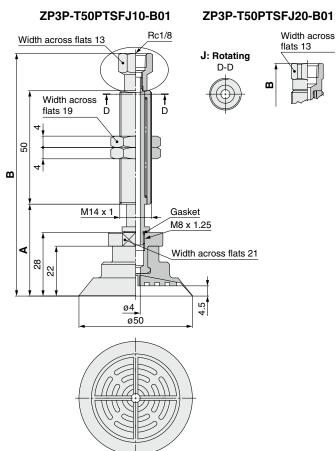
Dimensions

Part no.	Α	В	Weight [g]
ZP3P-T35PTSFK10-B01	37.5	104	93.0
ZP3P-T35PTSFK20-B01	47.5	109.5	94.1

Vacuum Pad **ZP3P** Series

Dimensions: With Buffer

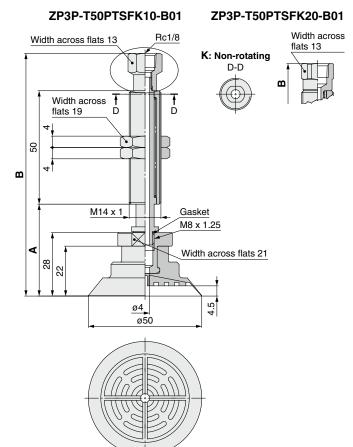
ZP3P-T50PTSFJ■-B01



Dimensions

Part no.	Α	В	Weight [g]
ZP3P-T50PTSFJ10-B01	40.5	107	101.3
ZP3P-T50PTSFJ20-B01	50.5	112.5	102.3

ZP3P-T50PTSFK■-B01



Dimensions

Part no.	Α	В	Weight [g]
ZP3P-T50PTSFK10-B01	40.5	107	100.7
ZP3P-T50PTSFK20-B01	50.5	112.5	101.8

Model Selection

For Specia Application

Mark-fre

For FIII Adsorpt

at

Nozzle

Sk ion

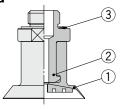
or Panel Holding

III Spline Buffer

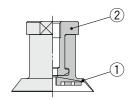
Vacuum Pad ZP3P Series Construction

Pad with Adapter

Male thread



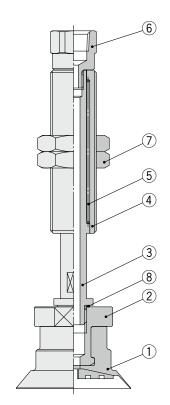
Female thread



Component Parts

No.	Description	Material (Surface treatment)	Note
1	Vacuum pad	Silicone rubber	
2	Adapter	Aluminum alloy (Clear anodized)	ZP3P-T□
		Stainless steel	ZP3PS-T□
3	Gasket	Stainless steel/NBR	ZP3P-□- (A5/AG1/AG2/AG3) ZP3PS-□- (AG1/AG2/AG3)
		Stainless steel/FKM	ZP3PS-□-A5
	Seal washer	Structural steel/NBR	ZP3P-□-A12
		Stainless steel/FKM	ZP3PS-□-A12

Pad with Buffer



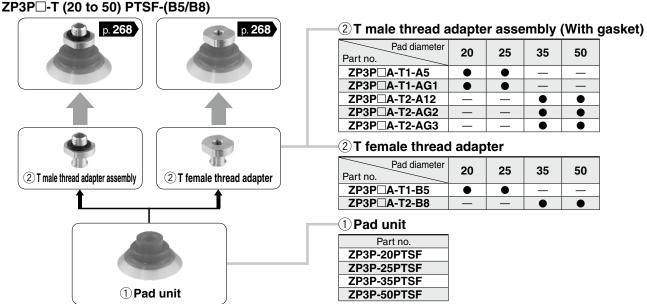
Component Parts

<u> </u>					
No.	Description	Material (Surface treatment)			
1	Vacuum pad	Silicone rubber			
2	Adapter	Aluminum alloy (Clear anodized)			
3	Piston rod	Stainless steel			
4	Buffer body	Brass (Electroless nickel plating)			
5	Return spring	Stainless steel			
6	Buffer adapter	Brass (Electroless nickel plating)			
7	Nut	Steel (Zinc chromated)			
8	Gasket	Stainless steel/NBR			
		I.			

Vacuum Pad ZP3P Series **Parts Structure**

With T Type Adapter

ZP3P□-T (20 to 50) PTSF-(A5/AG1/A12/AG2/AG3)



With Buffer

