



Compact Type

Flat Type with Groove

ZP3 Series

Pad diameter: Ø4, Ø6, Ø8, Ø10, Ø13, Ø16



Model Selection

How to Order

Pad unit ZP3 - **04** **UM** **N** p. 143 p. 160 From p. 162

With adapter ZP3 **T** **04** **UM** **N** - **A5** From p. 143 p. 160 From p. 162

With buffer ZP3 **T** **04** **UM** **N** **J** **3** - **B5** From p. 146 p. 161 p. 164

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

• Flat type with groove

① Adapter material

Nil	Brass
S*1	Stainless steel (Stainless steel 304)

*1 Only applicable to the pad with adapter

② Vacuum inlet direction

Nil	Pad unit
T	Vertical
Y	Lateral

③ Pad diameter

04	Ø4
06	Ø6
08	Ø8
10	Ø10
13	Ø13
16	Ø16

④ Material

N	NBR
S	Silicone rubber*1*2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber
HS	Semiconductive silicone rubber

⑤ Buffer specification

J	Rotating
JB	Rotating, With bushing
K	Non-rotating

⑥ Buffer stroke

Stroke [mm]	Buffer specification		
	J	JB	K
3	●	—	●
6	●	—	●
10	●	—	●
15	—	●	●
20	—	●	●

*1 Uses a material compliant with a dissolution test of the FDA (U.S. Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use."

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

With adapter

⑦ Connection thread/ ⑧ Vacuum inlet ○: ZP3-T/Vertical ●: ZP3-Y/Lateral

⑦ Connection thread			⑧ Vacuum inlet			Pad diameter [mm]	
Type	Symbol	Size	Type	Symbol	Size	ø4 to ø8	ø10 to ø16
Male thread	A5	M5 x 0.8	—	Nil	Use the connection thread.	○	○
	A10	M10 x 1	Female thread	B5	M5 x 0.8	○	—
			One-touch fitting	02*3	ø2	○	—
			One-touch fitting	04	ø4	○	—
			Barb fitting*3	U2	For ø2 polyurethane tubing*1	○	—
	A12	M12 x 1	Barb fitting*3	U4	For ø4 soft tubing*2	○	—
			Female thread	B5	M5 x 0.8	—	○
			One-touch fitting	02*3	ø2	—	○
			One-touch fitting	04	ø4	—	○
			One-touch fitting	06	ø6	—	○
			Barb fitting*3	U2	For ø2 polyurethane tubing*1	—	○
	Female thread	B5	M5 x 0.8	Barb fitting*3	U4	For ø4 soft tubing*2	—
Barb fitting*3				U6	For ø6 soft tubing*2	—	○
—				Nil	Use the connection thread.	○	○
Female thread				B5	M5 x 0.8	●	●
One-touch fitting*3				02	ø2	●	●
One-touch fitting*3				04	ø4	●	●
One-touch fitting*3				06	ø6	—	●
Barb fitting*3				U2	For ø2 polyurethane tubing*1	●	●
Barb fitting*3	U4	For ø4 soft tubing*2	●	●			
					U6	For ø6 soft tubing*2	—

With buffer

⑧ Vacuum inlet ○: ZP3-T/Vertical ●: ZP3-Y/Lateral

Type	Symbol	Size	Pad diameter [mm]
			Ø4 to Ø8
Female thread	B5	M5 x 0.8	○●
One-touch fitting	02	Ø2	○●
	04	Ø4	○●
	06	Ø6	—
Barb fitting	U2	For Ø2 polyurethane tubing*1	○●
	U4	For Ø4 soft tubing*2	○●
	U6	For Ø6 soft tubing*2	—

*1 Polyurethane tube piping

*2 Soft nylon/Polyurethane tube piping

*3 Not compatible with stainless steel materials

* It is not necessary to select a connection thread.

* The pad, mounting nut, and fitting are shipped together but do not come assembled.

ZP3 Compact

Flat Type

Flat Type with Groove

Bellows Type

Bellows Type with Ribs

Construction

Mounting Bracket Assembly

Precautions



Compact Type Bellows Type with Ribs

ZP3 Series

Pad diameter: $\varnothing 10$, $\varnothing 13$, $\varnothing 16$



How to Order

Pad unit	ZP3	-	10	B	N							p. 155	p. 160	From p. 162	
* Pad unit's sales unit: 5 pcs.															
With adapter	ZP3		-	T	10	B	N		-	A5	-		From p. 155	p. 160	From p. 162
With buffer	ZP3		-	T	10	B	N	J	3		-	B5	From p. 158	p. 161	p. 164

1

2

3

4

5

6

7

8

• Bellows type with ribs

1 Adapter material

Nil	Brass
S*1	Stainless steel (Stainless steel 304)

*1 Only applicable to the pad with adapter

2 Vacuum inlet direction

Nil	Pad unit
T	Vertical
Y	Lateral

3 Pad diameter

10	$\varnothing 10$
13	$\varnothing 13$
16	$\varnothing 16$

4 Material

N	NBR
S	Silicone rubber*1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

5 Buffer specification

J	Rotating
JB	Rotating, With bushing
K	Non-rotating

6 Buffer stroke

Stroke [mm]	Buffer specification		
	J	JB	K
3	●	—	●
6	●	—	●
10	●	—	●
15	—	●	●
20	—	●	●

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With adapter

7 Connection thread/8 Vacuum inlet

7 Connection thread			8 Vacuum inlet			Pad diameter
Type	Symbol	Size	Type	Symbol	Size	All sizes
Male thread	A5	M5 x 0.8	—	Nil	Use the connection thread.	○
			Female thread	B5	M5 x 0.8	○
			One-touch fitting	02*3	$\varnothing 2$	○
	A12	M12 x 1		04	$\varnothing 4$	○
				06	$\varnothing 6$	○
			Barb fitting*3	U2	For $\varnothing 2$ polyurethane tubing	○
Female thread	B5	M5 x 0.8		U4	For $\varnothing 4$ soft tubing	○
				U6	For $\varnothing 6$ soft tubing	○
			—	Nil	Use the connection thread.	○
			Female thread	B5	M5 x 0.8	●
			One-touch fitting*3	02	$\varnothing 2$	●
				04	$\varnothing 4$	●
				06	$\varnothing 6$	●
			Barb fitting*3	U2	For $\varnothing 2$ polyurethane tubing*1	●
				U4	For $\varnothing 4$ soft tubing*2	●
				U6	For $\varnothing 6$ soft tubing*2	●

*1 Polyurethane tube piping

*2 Soft nylon/Polyurethane tube piping

*3 Not compatible with stainless steel materials

With buffer

8 Vacuum inlet

Type	Symbol	Size	Pad diameter
Female thread	B5	M5 x 0.8	○●
One-touch fitting	02	$\varnothing 2$	○●
	04	$\varnothing 4$	○●
	06	$\varnothing 6$	○●
Barb fitting	U2	For $\varnothing 2$ polyurethane tubing	○●
	U4	For $\varnothing 4$ soft tubing	○●
	U6	For $\varnothing 6$ soft tubing	○●

* It is not necessary to select a connection thread.

* The pad, mounting nut, and fitting are shipped together but do not come assembled.

Model
Selection

ZP3
Compact

Flat Type

Flat Type
with Groove

Bellows Type

Bellows Type
with Ribs

Construction

Mounting
Bracket
Assembly

Precautions