




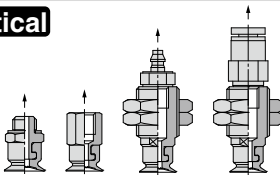
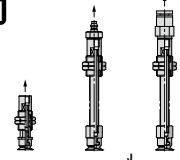
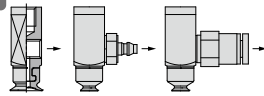
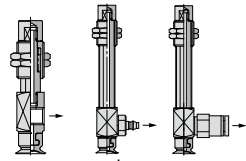
# Vacuum Pad

## Series ZP3

ø1.5, ø2, ø3.5, ø4, ø6, ø8, ø10, ø13, ø16



Type	Pad diameter									Material	Page
	ø1.5	ø2	ø3.5	ø4	ø6	ø8	ø10	ø13	ø16		
 <p><b>Flat</b> For adsorption of general workpieces For adsorption of work pieces with flat and not deformed surface</p>	●	●	●							NBR Silicone rubber Urethane rubber FKM Conductive NBR Conductive silicone rubber	P.1122
 <p><b>Flat with groove</b> For a workpiece which is likely to deform For releasing a workpiece certainly</p>				●	●	●	●	●			
 <p><b>Bellows</b> For adsorption of work pieces with inclined surface</p>				●	●	●	●	●			

Vacuum inlet direction	Buffer attachment	Vacuum inlet		Page
<b>Vertical</b>  ZP3-T □□□-□	Without buffer (with adapter)	Male thread	M3, M5	P.1124
		Female thread	M3, M5	
		Barb fitting	Polyurethane tubing ø2 Soft nylon/ Polyurethane tubing ø4, ø6	
		One-touch fitting	ø2, ø4, ø6	
<b>Vertical</b>  ZP3-T □□□- <sup>J</sup> □ <sub>K</sub> □-□	Stroke with buffer 3 mm 6 mm 10 mm 15 mm 20 mm	Female thread	M3, M5	P.1136
		Barb fitting	Polyurethane tubing ø2 Soft nylon/ Polyurethane tubing ø4, ø6	
		One-touch fitting	ø2, ø4, ø6	
<b>Lateral</b>  ZP3-Y □□□-□-□	Without buffer (with adapter)	Female thread	M3, M5	P.1146
		Barb fitting	Polyurethane tubing ø2 Soft nylon/ Polyurethane tubing ø4, ø6	
		One-touch fitting	ø2, ø4, ø6	
<b>Lateral</b>  ZP3-Y □□□- <sup>J</sup> □ <sub>K</sub> □-□	Stroke with buffer 3 mm 6 mm 10 mm 15 mm 20 mm	Female thread	M3, M5	P.1152
		Barb fitting	Polyurethane tubing ø2 Soft nylon/ Polyurethane tubing ø4, ø6	
		One-touch fitting	ø2, ø4, ø6	

Construction ..... P.1162  
 Adapter Applicable Pad List ..... P.1163  
 Buffer Applicable Pad List ..... P.1164

Mounting Adapter Part No. .... P.1168  
 Buffer Assembly Part No. .... P.1170

**ZP3**  
**ZP2**  
**ZP2V**  
**ZP**  
**ZPT**  
**ZPR**  
**XT661**





# Compact Pad

Pad diameter

ø1.5, ø2, ø3.5, ø4, ø6, ø8, ø10, ø13, ø16

Symbol/Type

U: Flat  
UM: Flat with groove  
B: Bellows

## How to Order

Pad unit

ZP3-015 U N



### Pad diameter

Symbol	Pad diameter
015	ø1.5
02	ø2
035	ø3.5
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16

### Pad material

Symbol	Material
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

### Pad type—Pad diameter

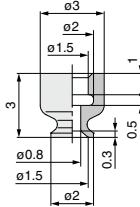
Pad type	Pad diameter (Symbol)								
	015	02	035	04	06	08	10	13	16
U (Flat)	●	●	●	—	—	—	—	—	—
UM (Flat with groove)	—	—	—	●	●	●	●	●	●
B (Bellows)	—	—	—	●	●	●	●	●	●

\* Sales unit  
ø1.5 to ø8 : 10 pcs.  
ø10 to ø16 : 5 pcs.

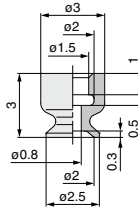
## Dimensions: Pad Unit

Flat

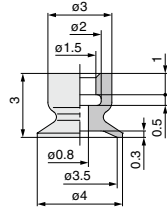
ZP3-015U □ [Weight: 0.1 g]



ZP3-02U □ [Weight: 0.1 g]

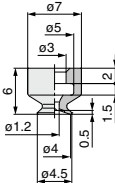


ZP3-035U □ [Weight: 0.1 g]

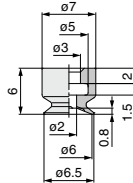


Flat with groove

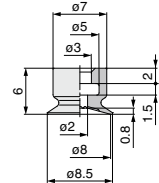
ZP3-04UM □ [Weight: 0.3 g]



ZP3-06UM □ [Weight: 0.3 g]



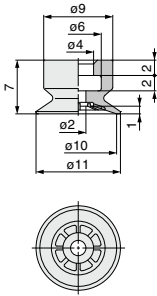
ZP3-08UM □ [Weight: 0.3 g]



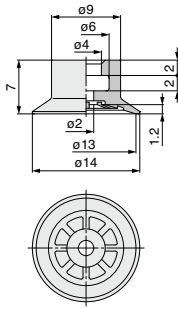
**Dimensions: Pad Unit**

**Flat with groove**

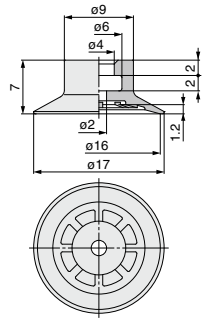
**ZP3-10UM** □ [Weight: 0.6 g]



**ZP3-13UM** □ [Weight: 0.7 g]

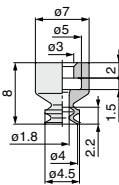


**ZP3-16UM** □ [Weight: 0.8 g]

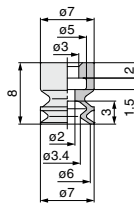


**Bellows**

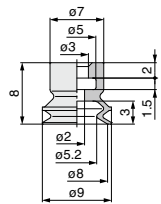
**ZP3-04B** □ [Weight: 0.3 g]



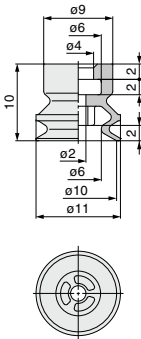
**ZP3-06B** □ [Weight: 0.3 g]



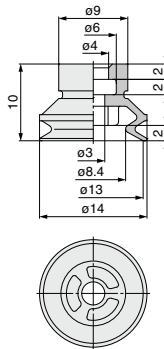
**ZP3-08B** □ [Weight: 0.4 g]



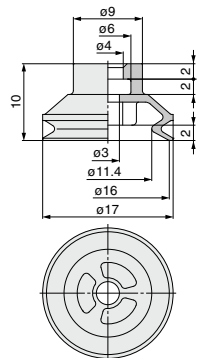
**ZP3-10B** □ [Weight: 0.8 g]



**ZP3-13B** □ [Weight: 1.0 g]



**ZP3-16B** □ [Weight: 1.1 g]



**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**

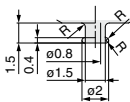
**ZPR**

**XT661**

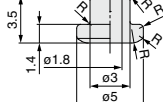
**Pad Mounting Dimensions**

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

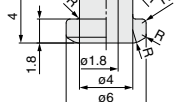
**Applicable pad**  
015U/02U/035U



**Applicable pad**  
04UM/06UM/08UM/04B/06B/08B

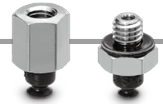


**Applicable pad**  
10UM/13UM/16UM/10B/13B/16B



Note) R part has to be smooth with no corners. \*Refer to pages 1168 and 1169 for applicable adapter.

## How to Order



Vertical vacuum inlet/  
With adapter

### ZP3-T 015 U N -A6-B3

Vacuum inlet direction

Symbol	Direction
T	Vertical

Pad diameter

Symbol	Pad diameter	Symbol	Pad diameter
015	ø1.5	08	ø8
02	ø2	10	ø10
035	ø3.5	13	ø13
04	ø4	16	ø16
06	ø6		

Pad type—Pad diameter

Pad type	Pad diameter (Symbol)	015	02	035	04	06
U (Flat)		●	●	●	—	—
UM (Flat with groove)		—	—	—	—	—
B (Bellows)		—	—	—	●	●

Pad type	Pad diameter (Symbol)	08	10	13	16
U (Flat)		—	—	—	—
UM (Flat with groove)		●	●	●	●
B (Bellows)		●	●	●	●

Pad material

Symbol	Material
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

Vacuum inlet (◇)

Symbol	Vacuum inlet	Mounting thread size		
		A6	A10	A12
B3	M3 x 0.5 female thread	●	●	●
B5	M5 x 0.8 female thread	●	●	●
U2	ø2 tubing/barb fitting #1	●	●	●
U4	ø4 tubing/barb fitting #2	●	●	●
U6	ø6 tubing/barb fitting #2	●	●	●
02	ø2 tubing	●	—	—
04	ø4 tubing	—	—	●
06	ø6 tubing	—	—	●
Nil	—	A3/A5/B3/B5		

\*1 Polyurethane tube piping  
\*2 Soft nylon/Polyurethane tube piping

Mounting thread size

	Symbol	Mounting Thread size	ø1.5 to ø3.5	ø4 to ø8	ø10 to ø16
			Male thread	●	●
Male thread	A3*	M3 x 0.5	●	—	—
	A5*	M5 x 0.8	—	●	—
	A6	M6 x 0.75	●	—	—
	A10	M10 x 1	—	●	—
Female thread	A12	M12 x 1	—	—	●
	B3*	M3 x 0.5	●	—	—
	B5*	M5 x 0.8	—	●	●

\* indicates vacuum inlet symbol is "Nil".

## Replacement Part No.

Pad diameter: ø1.5 to ø3.5

Model	Pad unit part no.	Adapter part no.
ZP3-T (015/02/035) U□-A3		ZP3A-T1-A3
ZP3-T (015/02/035) U□-B3	ZP3-(015/02/035) U□	ZP3A-T1-B3
ZP3-T (015/02/035) U□-A6-◇		ZP3A-T1-A6-B3

Note 1) □ in the table indicates the pad material.  
Note 2) ◇ in the table indicates the vacuum inlet.  
Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-3AU-2, U4: M-3AU-4-X83  
02: KJH02-M3, 04: KJH04-M3-X83

Pad diameter: ø4 to ø8

Model	Pad unit part no.	Adapter part no.
ZP3-T (04/06/08) UM□-A5	ZP3-(04/06/08) UM□	
ZP3-T (04/06/08) B□-A5	ZP3-(04/06/08) B□	ZP3A-T2-A5
ZP3-T (04/06/08) UM□-B5	ZP3-(04/06/08) UM□	
ZP3-T (04/06/08) B□-B5	ZP3-(04/06/08) B□	ZP3A-T2-B5
ZP3-T (04/06/08) UM□-A10-◇	ZP3-(04/06/08) UM□	
ZP3-T (04/06/08) B□-A10-◇	ZP3-(04/06/08) B□	ZP3A-T2-A10-B5
ZP3-T (04/06/08) UM□-A10-04	ZP3-(04/06/08) UM□	
ZP3-T (04/06/08) B□-A10-04	ZP3-(04/06/08) B□	ZP3A-T2-A10-04

Note 1) □ in the table indicates the pad material.  
Note 2) ◇ in the table indicates the vacuum inlet.  
Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-5AU-2, U4: M-5AU-4-X83,  
02: KJH02-M5

Pad diameter: ø10 to ø16

Model	Pad unit part no.	Adapter part no.
ZP3-T (10/13/16) UM□-A5	ZP3-(10/13/16) UM□	
ZP3-T (10/13/16) B□-A5	ZP3-(10/13/16) B□	ZP3A-T3-A5
ZP3-T (10/13/16) UM□-B5	ZP3-(10/13/16) UM□	
ZP3-T (10/13/16) B□-B5	ZP3-(10/13/16) B□	ZP3A-T3-B5
ZP3-T (10/13/16) UM□-A12-◇	ZP3-(10/13/16) UM□	
ZP3-T (10/13/16) B□-A12-◇	ZP3-(10/13/16) B□	ZP3A-T3-A12-B5
ZP3-T (10/13/16) UM□-A12-04	ZP3-(10/13/16) UM□	
ZP3-T (10/13/16) B□-A12-04	ZP3-(10/13/16) B□	ZP3A-T3-A12-04
ZP3-T (10/13/16) UM□-A12-06	ZP3-(10/13/16) UM□	
ZP3-T (10/13/16) B□-A12-06	ZP3-(10/13/16) B□	ZP3A-T3-A12-06

Note 1) □ in the table indicates the pad material.  
Note 2) ◇ in the table indicates the vacuum inlet.  
Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-5AU-2, U4: M-5AU-4-X83  
U6: M-5AU-6-X83, 02: KJH02-M5

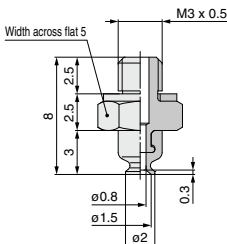
## Dimensions/With Adapter: Vacuum Inlet

### Vertical

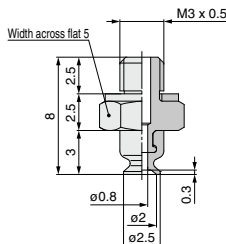
Pad diameter ø1.5 to ø3.5

Pad type Flat

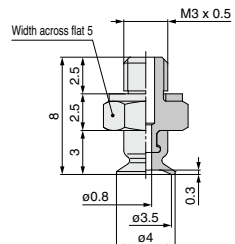
ZP3-T015U□-A3  
[Weight: 0.6 g]



ZP3-T020U□-A3  
[Weight: 0.6 g]



ZP3-T035U□-A3  
[Weight: 0.6 g]

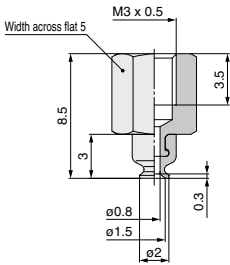


**Dimensions/With Adapter: Vacuum Inlet Vertical**

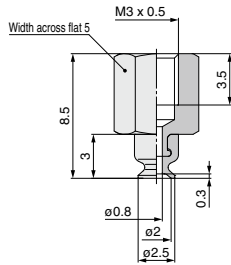
Pad diameter  $\phi 1.5$  to  $\phi 3.5$

Pad type Flat

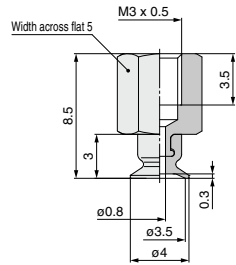
**ZP3-T015U□-B3**  
[Weight: 0.9 g]



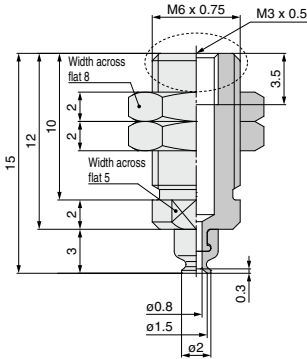
**ZP3-T02U□-B3**  
[Weight: 0.9 g]



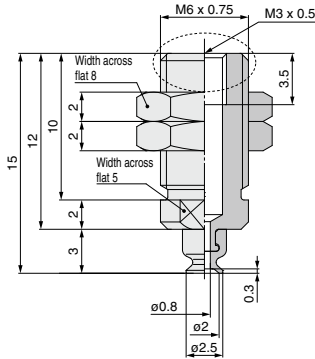
**ZP3-T035U□-B3**  
[Weight: 0.9 g]



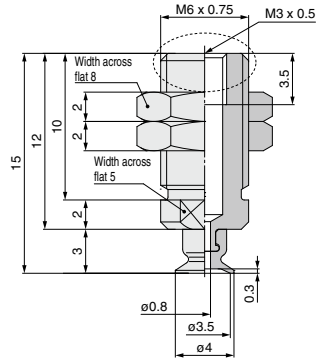
**ZP3-T015U□-A6-B3**  
[Weight: 2.8 g]



**ZP3-T02U□-A6-B3**  
[Weight: 2.8 g]



**ZP3-T035U□-A6-B3**  
[Weight: 2.8 g]



**Vacuum Inlet Dimensions**

	ZP3-T015U□-A6-U2 ZP3-T02U□-A6-U2 ZP3-T035U□-A6-U2	ZP3-T015U□-A6-U4 ZP3-T02U□-A6-U4 ZP3-T035U□-A6-U4	ZP3-T015U□-A6-02 ZP3-T02U□-A6-02 ZP3-T035U□-A6-02	ZP3-T015U□-A6-04 ZP3-T02U□-A6-04 ZP3-T035U□-A6-04
<b>Barb fitting</b>	 <b>M-3AU-2</b> [Weight: 0.7 g] <sup>2</sup>	 <b>M-3AU-4-X83</b> [Weight: 0.7 g] <sup>2</sup>	 <b>KJH02-M3</b> [Weight: 1.1 g] <sup>2</sup>	 <b>KJH04-M3-X83</b> [Weight: 1.9 g] <sup>2</sup>

\*1 Refer to "ZP3-T▲▲▲U□-A6-B3" for dimensions.  
\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲▲U□-A6-B3".

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

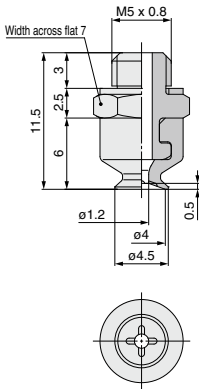
XT661

## Dimensions/With Adapter: Vacuum Inlet **Vertical**

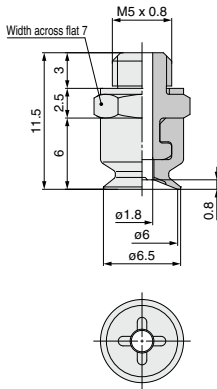
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

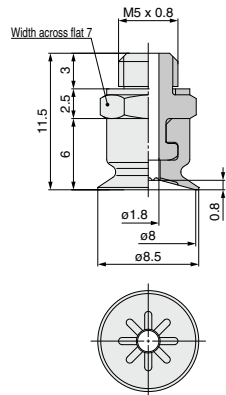
**ZP3-T04UM□-A5**  
[Weight: 1.7 g]



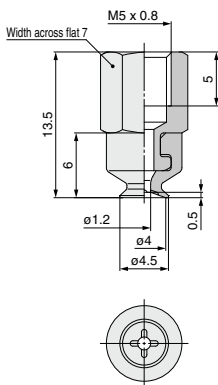
**ZP3-T06UM□-A5**  
[Weight: 1.7 g]



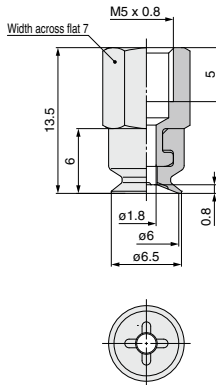
**ZP3-T08UM□-A5**  
[Weight: 1.7 g]



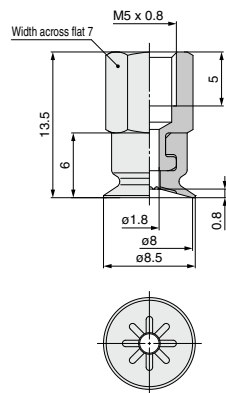
**ZP3-T04UM□-B5**  
[Weight: 2.3 g]



**ZP3-T06UM□-B5**  
[Weight: 2.3 g]



**ZP3-T08UM□-B5**  
[Weight: 2.3 g]

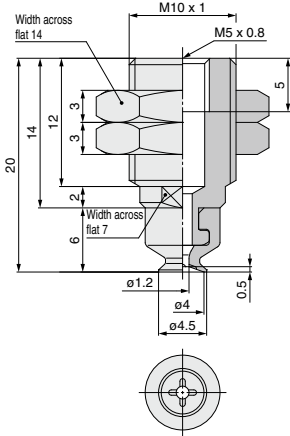


**Dimensions/With Adapter: Vacuum Inlet Vertical**

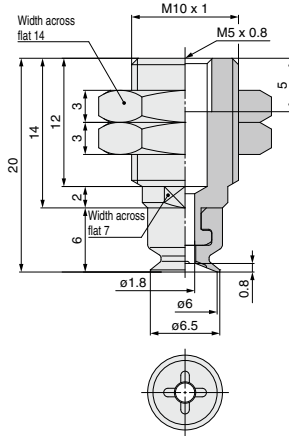
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

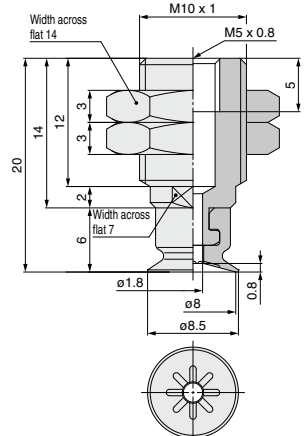
**ZP3-T04UM□-A10-B5**  
[Weight: 11.0 g]



**ZP3-T06UM□-A10-B5**  
[Weight: 11.0 g]



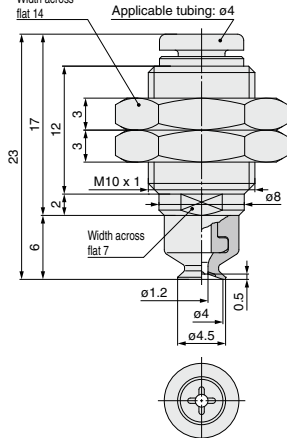
**ZP3-T08UM□-A10-B5**  
[Weight: 11.0 g]



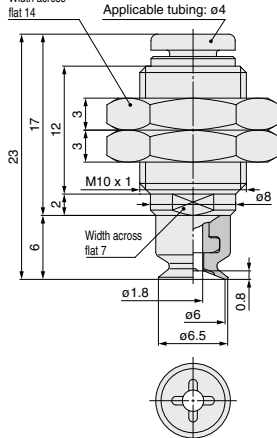
**Vacuum Inlet Dimensions**

<b>Barb fitting</b>	<p>ZP3-T04UM□-A10-U2 ZP3-T06UM□-A10-U2 ZP3-T08UM□-A10-U2</p> <p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>2</sup></p>	<p>ZP3-T04UM□-A10-U4 ZP3-T06UM□-A10-U4 ZP3-T08UM□-A10-U4</p> <p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>2</sup></p>	<b>One-touch fitting</b>	<p>ZP3-T04UM□-A10-02 ZP3-T06UM□-A10-02 ZP3-T08UM□-A10-02</p> <p><b>KJH02-M5</b> [Weight: 1.9 g]<sup>2</sup></p>
	<p>*1 Refer to "ZP3-T▲▲UM□-A10-B5" for dimensions. *2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲UM□-A10-B5".</p>			

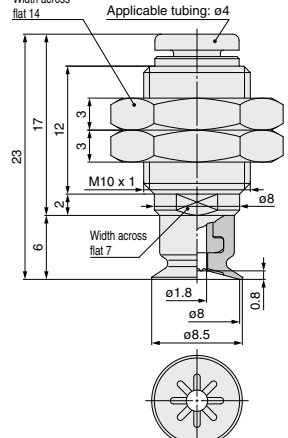
**ZP3-T04UM□-A10-04**  
[Weight: 10.2 g]



**ZP3-T06UM□-A10-04**  
[Weight: 10.2 g]



**ZP3-T08UM□-A10-04**  
[Weight: 10.2 g]



**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT  
ZPR**

**XT661**

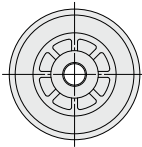
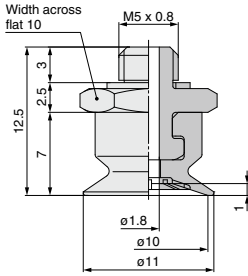
# Series ZP3

## Dimensions/With adapter: Vacuum inlet **Vertical**

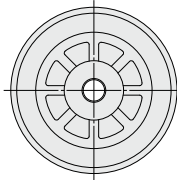
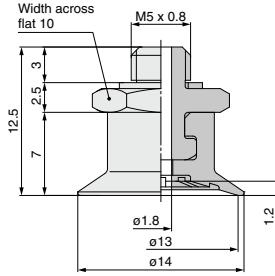
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Flat with groove

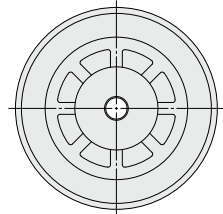
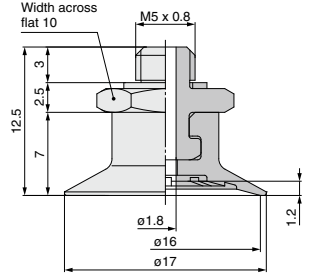
**ZP3-T10UM□-A5**  
[Weight: 3.0 g]



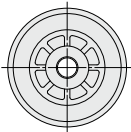
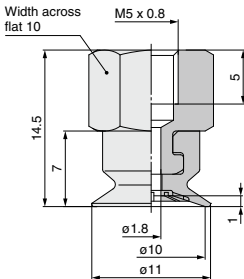
**ZP3-T13UM□-A5**  
[Weight: 3.1 g]



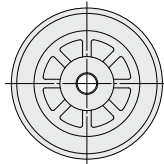
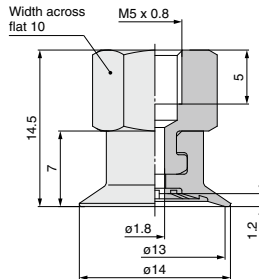
**ZP3-T16UM□-A5**  
[Weight: 3.2 g]



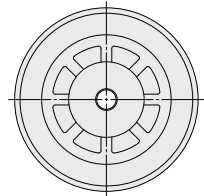
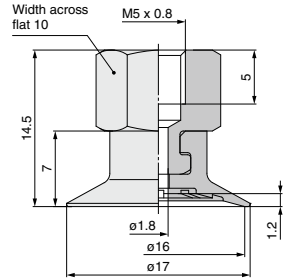
**ZP3-T10UM□-B5**  
[Weight: 5.7 g]



**ZP3-T13UM□-B5**  
[Weight: 5.8 g]



**ZP3-T16UM□-B5**  
[Weight: 5.9 g]



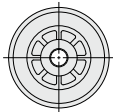
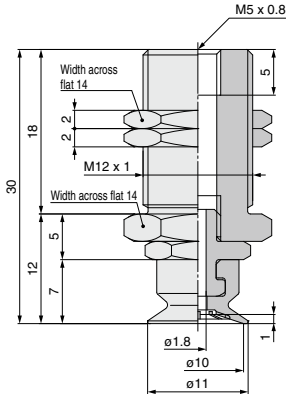


**Dimensions/With Adapter: Vacuum Inlet Vertical**

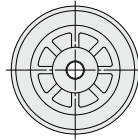
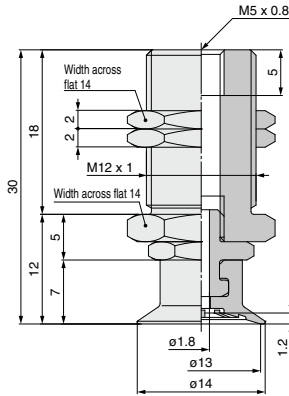
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Flat with groove

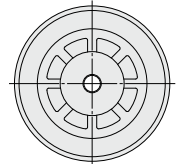
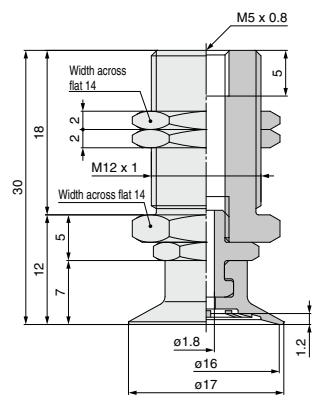
**ZP3-T10UM□-A12-B5**  
[Weight: 18.8 g]



**ZP3-T13UM□-A12-B5**  
[Weight: 18.9 g]



**ZP3-T16UM□-A12-B5**  
[Weight: 19.0 g]



**Vacuum Inlet Dimensions**

Barb fitting	<b>ZP3-T10UM□-A12-U2</b> <b>ZP3-T13UM□-A12-U2</b> <b>ZP3-T16UM□-A12-U2</b>	<b>ZP3-T10UM□-A12-U4</b> <b>ZP3-T13UM□-A12-U4</b> <b>ZP3-T16UM□-A12-U4</b>	<b>ZP3-T10UM□-A12-U6</b> <b>ZP3-T13UM□-A12-U6</b> <b>ZP3-T16UM□-A12-U6</b>
	<p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>2</sup></p>	<p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>2</sup></p>	<p><b>M-5AU-6-X83</b> [Weight: 1.8 g]<sup>2</sup></p>
	<b>ZP3-T10UM□-A12-O2</b> <b>ZP3-T13UM□-A12-O2</b> <b>ZP3-T16UM□-A12-O2</b>	<p><b>KJH02-M5</b> [Weight: 1.9 g]<sup>2</sup></p>	

**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**  
**ZPR**

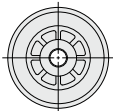
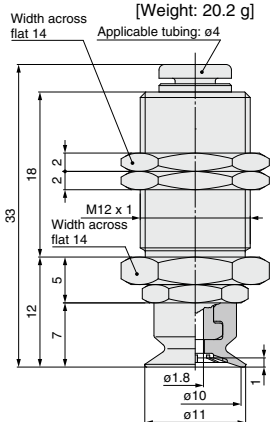
**XT661**

\*1 Refer to "ZP3-T▲▲UM□-A12-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲UM□-A12-B5".

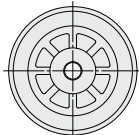
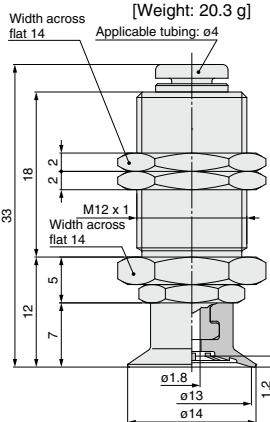
**ZP3-T10UM□-A12-04**

[Weight: 20.2 g]



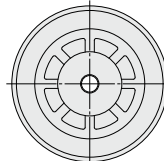
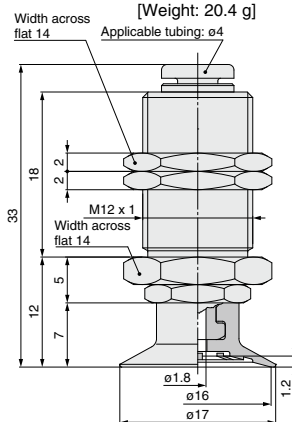
**ZP3-T13UM□-A12-04**

[Weight: 20.3 g]



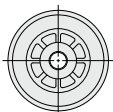
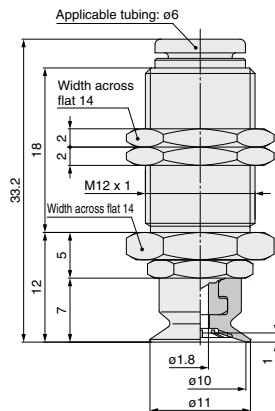
**ZP3-T16UM□-A12-04**

[Weight: 20.4 g]



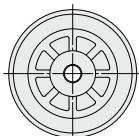
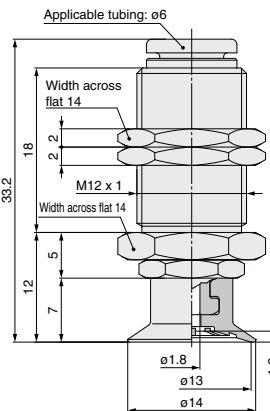
**ZP3-T10UM□-A12-06**

[Weight: 18.1 g]



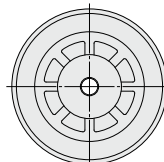
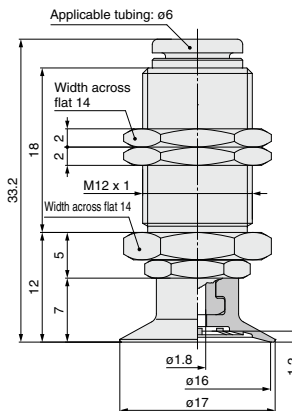
**ZP3-T13UM□-A12-06**

[Weight: 18.2 g]



**ZP3-T16UM□-A12-06**

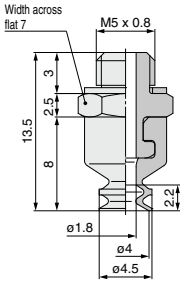
[Weight: 18.3 g]



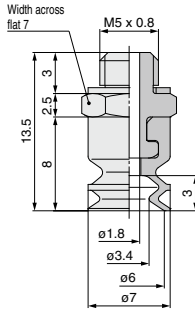
**Dimensions/With Adapter: Vacuum Inlet Vertical**

Pad diameter  $\phi 4$  to  $\phi 8$   
 Pad type Bellows

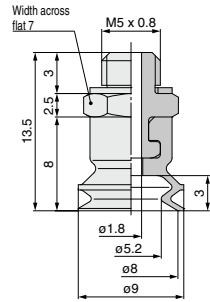
**ZP3-T04B□-A5**  
 [Weight: 1.7 g]



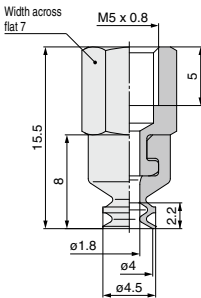
**ZP3-T06B□-A5**  
 [Weight: 1.7 g]



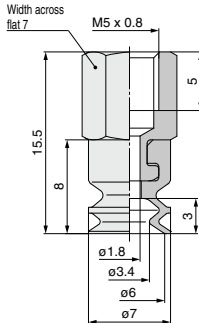
**ZP3-T08B□-A5**  
 [Weight: 1.8 g]



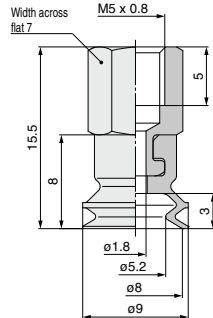
**ZP3-T04B□-B5**  
 [Weight: 2.3 g]



**ZP3-T06B□-B5**  
 [Weight: 2.3 g]



**ZP3-T08B□-B5**  
 [Weight: 2.4 g]



**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**

**ZPR**

**XT661**

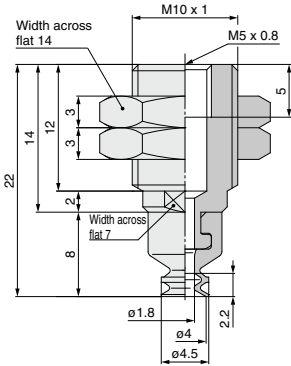
# Series ZP3

## Dimensions/With Adapter: Vacuum Inlet **Vertical**

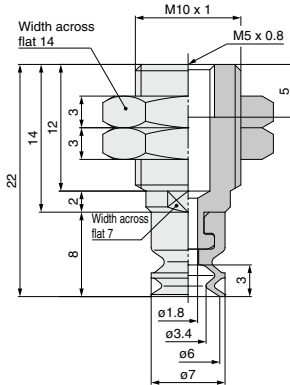
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Bellows

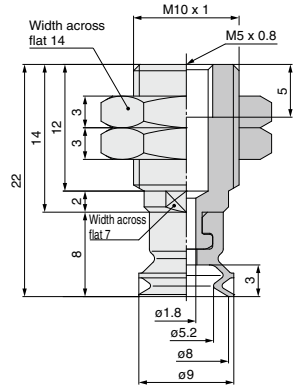
**ZP3-T04B□-A10-B5**  
[Weight: 11.0 g]



**ZP3-T06B□-A10-B5**  
[Weight: 11.0 g]



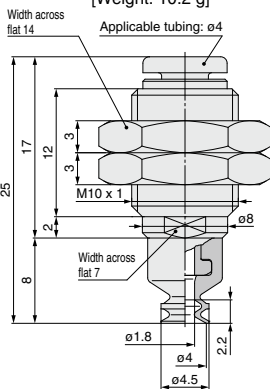
**ZP3-T08B□-A10-B5**  
[Weight: 11.1 g]



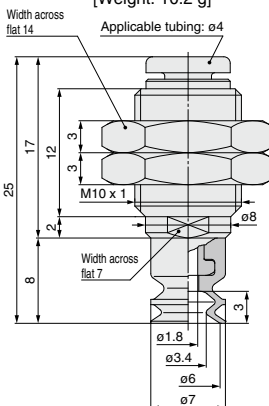
## Vacuum Inlet Dimensions

Barb fitting	<p><b>ZP3-T04B□-A10-U2</b> <b>ZP3-T06B□-A10-U2</b> <b>ZP3-T08B□-A10-U2</b></p> <p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>*2</sup></p>	<p><b>ZP3-T04B□-A10-U4</b> <b>ZP3-T06B□-A10-U4</b> <b>ZP3-T08B□-A10-U4</b></p> <p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>*2</sup></p>	One-touch fitting	<p><b>ZP3-T04B□-A10-02</b> <b>ZP3-T06B□-A10-02</b> <b>ZP3-T08B□-A10-02</b></p> <p><b>KJH02-M5</b> [Weight: 1.8 g]<sup>*2</sup></p>
	<p>*1 Refer to "ZP3-T▲▲B□-A10-B5" for dimensions. *2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲B□-A10-B5".</p>			

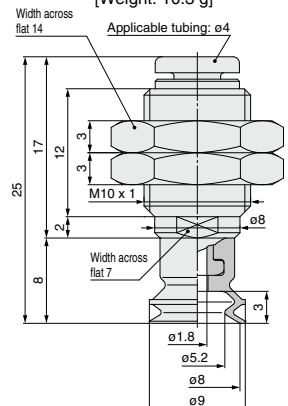
**ZP3-T04B□-A10-04**  
[Weight: 10.2 g]



**ZP3-T06B□-A10-04**  
[Weight: 10.2 g]



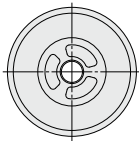
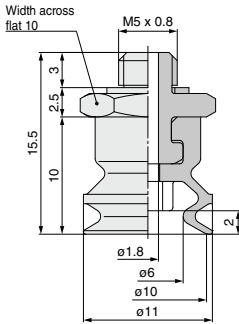
**ZP3-T08B□-A10-04**  
[Weight: 10.3 g]



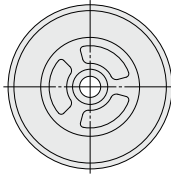
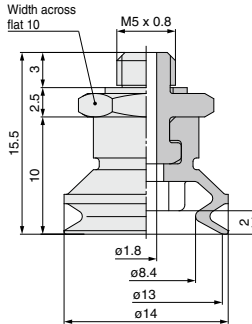
**Dimensions/With Adapter: Vacuum Inlet Vertical**

Pad diameter  $\phi 10$  to  $\phi 16$   
Pad type **Bellows**

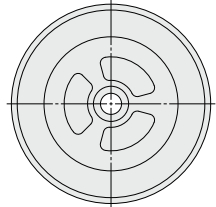
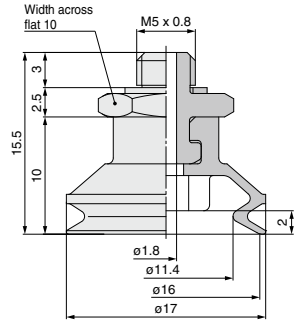
**ZP3-T10B□-A5**  
[Weight: 3.2 g]



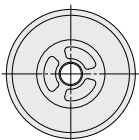
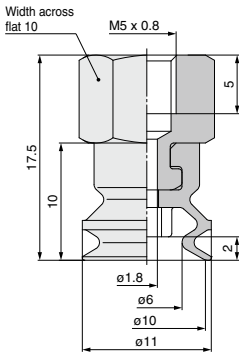
**ZP3-T13B□-A5**  
[Weight: 3.4 g]



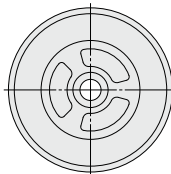
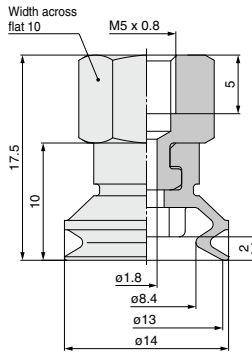
**ZP3-T16B□-A5**  
[Weight: 3.5 g]



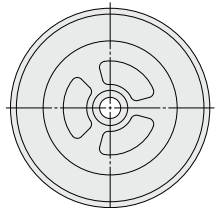
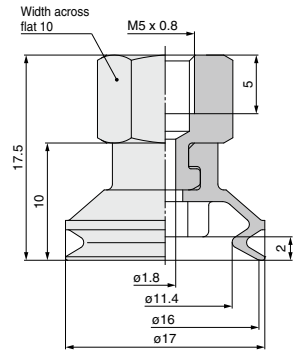
**ZP3-T10B□-B5**  
[Weight: 5.9 g]



**ZP3-T13B□-B5**  
[Weight: 6.1 g]



**ZP3-T16B□-B5**  
[Weight: 6.2 g]



**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**

**ZPR**

**XT661**

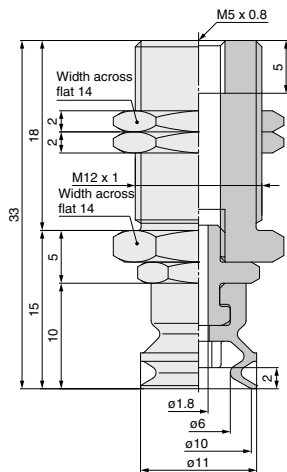
## Dimensions/With Adapter: Vacuum Inlet **Vertical**

Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Bellows

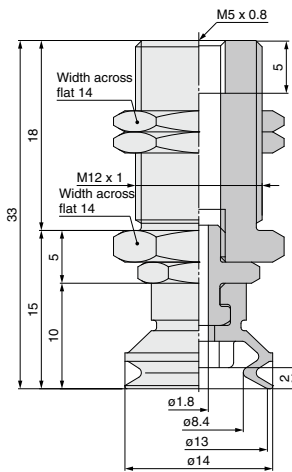
**ZP3-T10B□-A12-B5**

[Weight: 19.0 g]



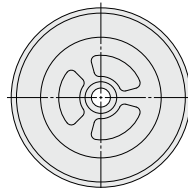
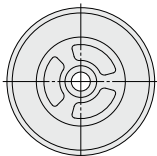
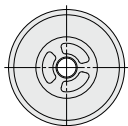
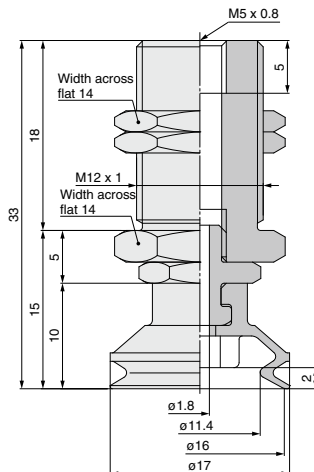
**ZP3-T13B□-A12-B5**

[Weight: 19.2 g]

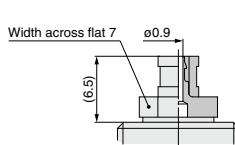
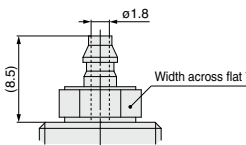
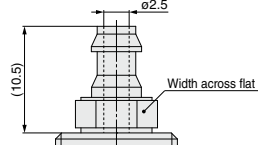
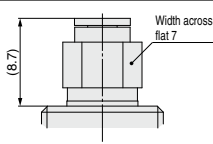


**ZP3-T16B□-A12-B5**

[Weight: 19.3 g]



### Vacuum Inlet Dimensions

Barb fitting	<p><b>ZP3-T10B□-A12-U2</b> <b>ZP3-T13B□-A12-U2</b> <b>ZP3-T16B□-A12-U2</b></p>  <p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>2</sup></p>	<p><b>ZP3-T10B□-A12-U4</b> <b>ZP3-T13B□-A12-U4</b> <b>ZP3-T16B□-A12-U4</b></p>  <p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>2</sup></p>	<p><b>ZP3-T10B□-A12-U6</b> <b>ZP3-T13B□-A12-U6</b> <b>ZP3-T16B□-A12-U6</b></p>  <p><b>M-5AU-6-X83</b> [Weight: 1.8 g]<sup>2</sup></p>
	<p><b>ZP3-T10B□-A12-O2</b> <b>ZP3-T13B□-A12-O2</b> <b>ZP3-T16B□-A12-O2</b></p>  <p><b>KJH02-M5</b> [Weight: 1.9 g]<sup>2</sup></p>		

\*1 Refer to "ZP3-T▲▲B□-A12-B5" for dimensions.

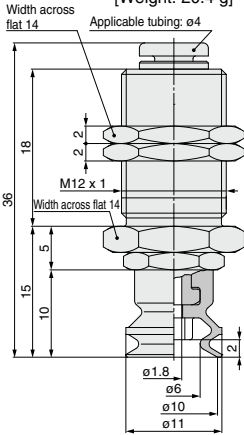
\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲B□-A12-B5".

**Dimensions/With Adapter: Vacuum Inlet Vertical**

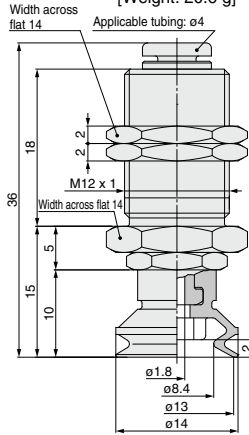
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Bellows

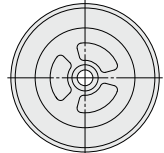
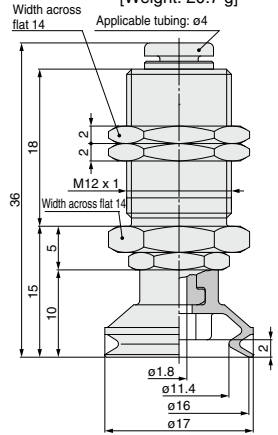
**ZP3-T10B□-A12-04**  
[Weight: 20.4 g]



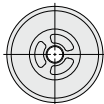
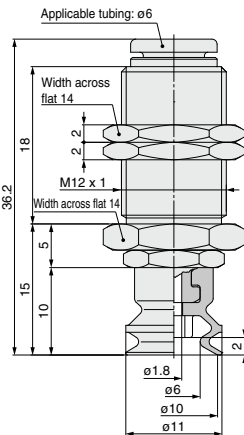
**ZP3-T13B□-A12-04**  
[Weight: 20.6 g]



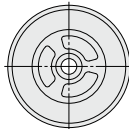
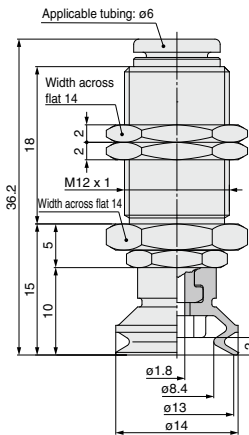
**ZP3-T16B□-A12-04**  
[Weight: 20.7 g]



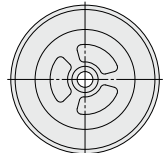
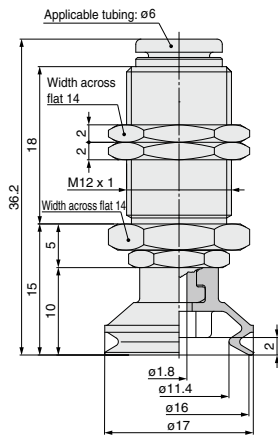
**ZP3-T10B□-A12-06**  
[Weight: 18.3 g]



**ZP3-T13B□-A12-06**  
[Weight: 18.5 g]



**ZP3-T16B□-A12-06**  
[Weight: 18.6 g]



**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**

**ZPR**

**XT661**

## How to Order

Vertical vacuum inlet/  
With buffer

### ZP3-T 015 U N J 3 - B3

Vacuum inlet direction

Symbol	Direction
T	Vertical

Pad diameter

Symbol	Pad diameter
015	ø1.5
02	ø2
035	ø3.5
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16

Pad type—Pad diameter

Pad type	Pad diameter (Symbol)	015	02	035	04	06
U (Flat)		●	●	●	—	—
UM (Flat with groove)		—	—	—	●	●
B (Bellows)		—	—	—	—	●

Pad type	Pad diameter (Symbol)	08	10	13	16
U (Flat)		—	—	—	—
UM (Flat with groove)		●	●	●	●
B (Bellows)		●	●	●	●

Pad material

Symbol	Material
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

Vacuum inlet (◇)

Symbol	Connection	ø1.5 to ø3.5	ø4 to ø8	ø10 to ø16
		●	●	●
Female thread	B3	M3 x 0.5	—	—
	B5	M5 x 0.8	—	—
Barb fitting	U2	ø2 tubing *1	●	●
	U4	ø4 tubing *2	●	●
	U6	ø6 tubing *2	—	●
One-touch fitting	02	ø2 tubing	●	●
	04	ø4 tubing	—	●
	06	ø6 tubing	—	●

\*1 Polyurethane tube piping

\*2 Soft nylon/Polyurethane tube piping

Stroke (■)—Buffer specifications

Stroke	ø1.5 to ø3.5		ø4 to ø16	
	J	K	J	JB
3	●	●	—	●
6	●	●	●	●
10	—	—	●	●
15	—	—	—	●
20	—	—	—	●

\*Refer to the "Specifications" below, for applicable stroke.

Buffer specifications (☆)

J	Rotating
JB	Rotating, With bushing
K	Non-rotating

## Specifications

Pad diameter	Buffer specifications	Stroke (mm)	Tightening torque (N·m)	Mounting	Spring reactive force	
					At 0 stroke (N)	At full stroke (N)
ø1.5 to ø3.5	J	3, 6	1.5 to 1.8	M6 x 0.75	0.2	0.4
	K					
ø4 to ø16	J	3, 6, 10	2.0 to 2.5	M8 x 0.75		
	JB	15, 20				
	K	3, 6, 10, 15, 20				

## Replacement Part No.

Pad diameter: ø1.5 to ø3.5

Model	Pad unit part no.	Buffer assembly part no. (Note 3)
ZP3-T(015/02/035)U□(J/K)3-◇	ZP3-(015/02/035)U□	ZP3B-T1(J/K)3-B3
ZP3-T(015/02/035)U□(J/K)6-◇		ZP3B-T1(J/K)6-B3

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-3AU-2, U4: M-3AU-4-X83  
02: KJH02-M3, 04: KJH04-M3-X83

Pad diameter: ø4 to ø8

Model	Pad unit part no.	Buffer assembly part no. (Note 3)
ZP3-T(04/06/08)UM□(J/K)3-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/K)3-B5
ZP3-T(04/06/08)B□(J/K)3-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(J/K)6-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/K)6-B5
ZP3-T(04/06/08)B□(J/K)6-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(J/K)10-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/K)10-B5
ZP3-T(04/06/08)B□(J/K)10-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(J/B/K)15-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/B/K)15-B5
ZP3-T(04/06/08)B□(J/B/K)15-◇	ZP3-(04/06/08)B□	
ZP3-T(04/06/08)UM□(J/B/K)20-◇	ZP3-(04/06/08)UM□	ZP3B-T2A(J/B/K)20-B5
ZP3-T(04/06/08)B□(J/B/K)20-◇	ZP3-(04/06/08)B□	

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-5AU-2, U4: M-5AU-4-X83  
02: KJH02-M5, 04: KJH04-M5

Pad diameter: ø10 to ø16

Model	Pad unit part no.	Buffer assembly part no. (Note 3)
ZP3-T(10/13/16)UM□(J/K)3-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/K)3-B5
ZP3-T(10/13/16)B□(J/K)3-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(J/K)6-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/K)6-B5
ZP3-T(10/13/16)B□(J/K)6-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(J/K)10-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/K)10-B5
ZP3-T(10/13/16)B□(J/K)10-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(J/B/K)15-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/B/K)15-B5
ZP3-T(10/13/16)B□(J/B/K)15-◇	ZP3-(10/13/16)B□	
ZP3-T(10/13/16)UM□(J/B/K)20-◇	ZP3-(10/13/16)UM□	ZP3B-T2B(J/B/K)20-B5
ZP3-T(10/13/16)B□(J/B/K)20-◇	ZP3-(10/13/16)B□	

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-5AU-2, U4: M-5AU-4-X83  
U6: M-5AU-6-X83, 02: KJH02-M5  
04: KJH04-M5, 06: KJH06-M5



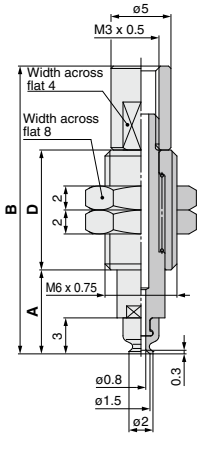
Pad diameter  $\phi 1.5$  to  $\phi 3.5$

Pad type Flat

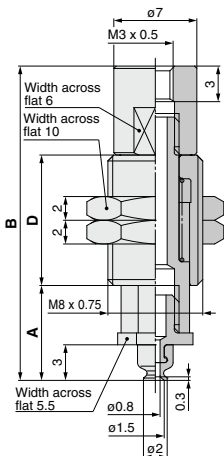
Stroke 3, 6 mm

Dimensions/With Buffer: Vacuum Inlet **Vertical**

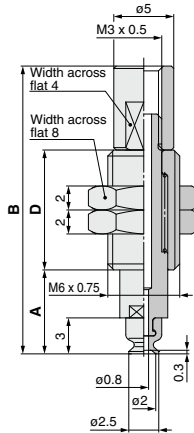
ZP3-T015U□J■-B3



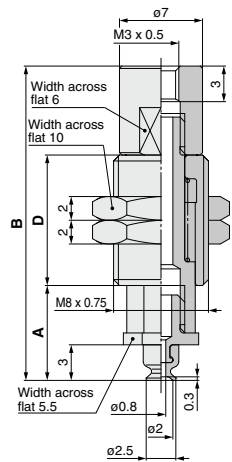
ZP3-T015U□K■-B3



ZP3-T02U□J■-B3



ZP3-T02U□K■-B3



Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-T015U□J3-B3	7	24	10	3.4
ZP3-T015U□J6-B3	10	31	14	4.4

Note) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-T015U□K3-B3	8	28.5	11	6.8
ZP3-T015U□K6-B3	11	33	14.5	8.2

Note) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-T02U□J3-B3	7	24	10	3.4
ZP3-T02U□J6-B3	10	31	14	4.4

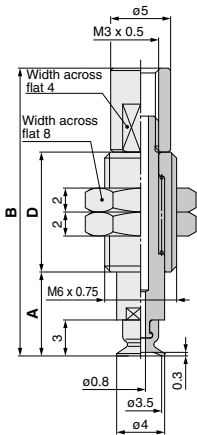
Note) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Dimensions (per stroke)

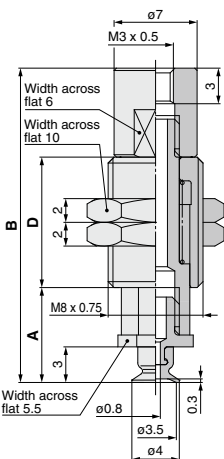
Model	A	B	D	Weight (g)
ZP3-T02U□K3-B3	8	28.5	11	6.8
ZP3-T02U□K6-B3	11	33	14.5	8.2

Note) □ in the table indicates the pad material "N, S, U, F, GN, GS."

ZP3-T035U□J■-B3



ZP3-T035U□K■-B3



Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-T035U□J3-B3	7	24	10	3.4
ZP3-T035U□J6-B3	10	31	14	4.4

Note) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Dimensions (per stroke)

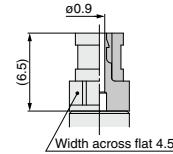
Model	A	B	D	Weight (g)
ZP3-T035U□K3-B3	8	28.5	11	6.8
ZP3-T035U□K6-B3	11	33	14.5	8.2

Note) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Vacuum Inlet Dimensions

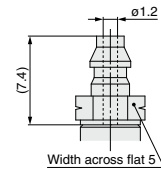
Barb fitting

- ZP3-T015U□☆■-U2
- ZP3-T02U□☆■-U2
- ZP3-T035U□☆■-U2



M-3AU-2 [Weight: 0.7 g]<sup>\*2</sup>

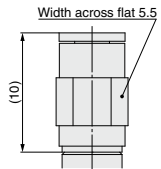
- ZP3-T015U□☆■-U4
- ZP3-T02U□☆■-U4
- ZP3-T035U□☆■-U4



M-3AU-4-X83 [Weight: 0.7 g]<sup>\*2</sup>

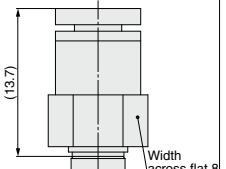
One-touch fitting

- ZP3-T015U□☆■-O2
- ZP3-T02U□☆■-O2
- ZP3-T035U□☆■-O2



KJH02-M3 [Weight: 1.1 g]<sup>\*2</sup>

- ZP3-T015U□☆■-O4
- ZP3-T02U□☆■-O4
- ZP3-T035U□☆■-O4



KJH04-M3-X83 [Weight: 1.9 g]<sup>\*2</sup>

\*1 Refer to "ZP3-T▲▲▲U□☆■-B3" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲▲U□☆■-B3".

# Series ZP3

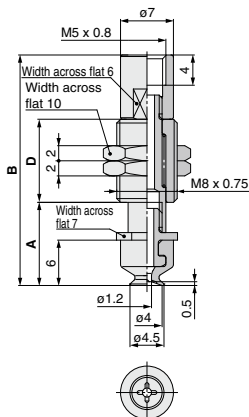
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

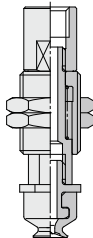
Stroke 3, 6, 10 mm

## Dimensions/With Buffer: Vacuum Inlet **Vertical**

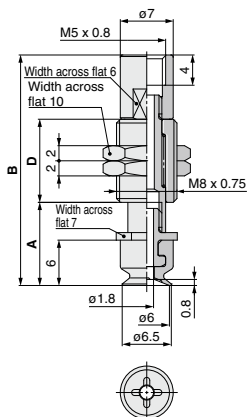
ZP3-T04UM□J■-B5



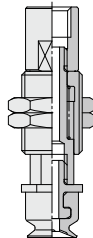
ZP3-T04UM□K■-B5



ZP3-T06UM□J■-B5



ZP3-T06UM□K■-B5



### Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T04UM□☆3-B5	11	30.5	11	7.4	7.3
ZP3-T04UM□☆6-B5	14	37	14.5	8.6	8.6
ZP3-T04UM□☆10-B5	18	47	20.5	10.5	10.5

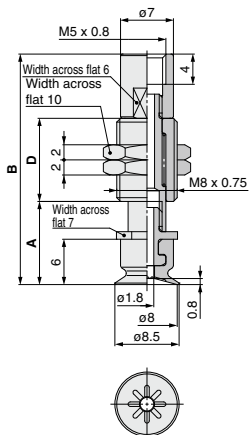
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "J" or "K".

### Dimensions (per stroke)

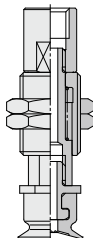
Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T06UM□☆3-B5	11	30.5	11	7.4	7.3
ZP3-T06UM□☆6-B5	14	37	14.5	8.6	8.6
ZP3-T06UM□☆10-B5	18	47	20.5	10.5	10.5

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "J" or "K".

ZP3-T08UM□J■-B5



ZP3-T08UM□K■-B5



### Dimensions (per stroke)

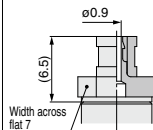
Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T08UM□☆3-B5	11	30.5	11	7.4	7.3
ZP3-T08UM□☆6-B5	14	37	14.5	8.6	8.6
ZP3-T08UM□☆10-B5	18	47	20.5	10.5	10.5

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "J" or "K".

## Vacuum Inlet Dimensions

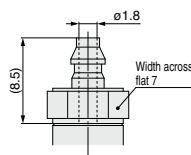
### Barb fitting

ZP3-T04UM□☆■-U2  
ZP3-T06UM□☆■-U2  
ZP3-T08UM□☆■-U2



M-5AU-2 [Weight: 1.5 g]<sup>1,2</sup>

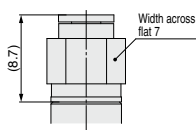
ZP3-T04UM□☆■-U4  
ZP3-T06UM□☆■-U4  
ZP3-T08UM□☆■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>1,2</sup>

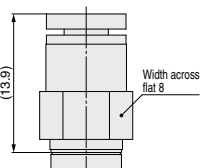
### One-touch fitting

ZP3-T04UM□☆■-02  
ZP3-T06UM□☆■-02  
ZP3-T08UM□☆■-02



KJH02-M5 [Weight: 1.9 g]<sup>1,2</sup>

ZP3-T04UM□☆■-04  
ZP3-T06UM□☆■-04  
ZP3-T08UM□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>1,2</sup>

\*1 Refer to "ZP3-T▲▲UM□☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲UM□☆■-B5".

Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

Stroke 15, 20 mm

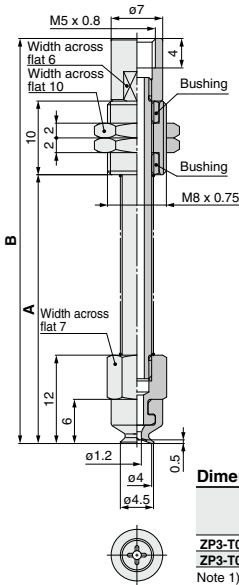
Dimensions/With Buffer: Vacuum Inlet **Vertical**

ZP3-T04UM□JB■-B5

ZP3-T04UM□K■-B5

ZP3-T06UM□JB■-B5

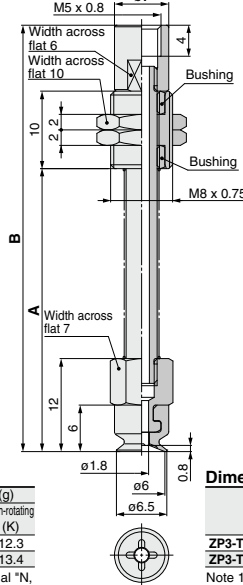
ZP3-T06UM□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T04UM□15-B5	36.5	55	10.3	12.3
ZP3-T04UM□20-B5	44	62.5	10.9	13.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".



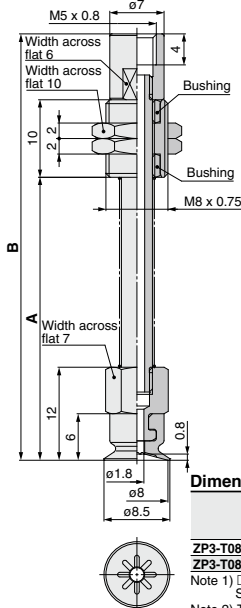
Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T06UM□15-B5	36.5	55	10.3	12.3
ZP3-T06UM□20-B5	44	62.5	10.9	13.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-T08UM□JB■-B5

ZP3-T08UM□K■-B5



Dimensions (per stroke)

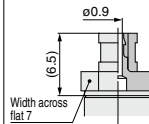
Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T08UM□15-B5	36.5	55	10.3	12.3
ZP3-T08UM□20-B5	44	62.5	10.9	13.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Vacuum Inlet Dimensions

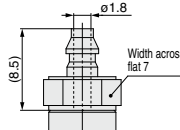
Barb fitting

- ZP3-T04UM□☆■-U2
- ZP3-T06UM□☆■-U2
- ZP3-T08UM□☆■-U2



M-5AU-2 [Weight: 1.5 g]<sup>1,2</sup>

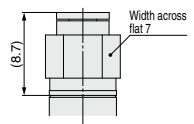
- ZP3-T04UM□☆■-U4
- ZP3-T06UM□☆■-U4
- ZP3-T08UM□☆■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>1,2</sup>

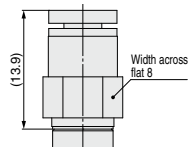
One-touch fitting

- ZP3-T04UM□☆■-02
- ZP3-T06UM□☆■-02
- ZP3-T08UM□☆■-02



KJH02-M5 [Weight: 1.9 g]<sup>2</sup>

- ZP3-T04UM□☆■-04
- ZP3-T06UM□☆■-04
- ZP3-T08UM□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>2</sup>

<sup>1</sup> Refer to "ZP3-T▲▲UM□☆■-B5" for dimensions.

<sup>2</sup> When calculating the weight, add the weight of the fitting to "ZP3-T▲▲UM□☆■-B5".

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

# Series ZP3

Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Flat with groove

Stroke 3, 6, 10 mm

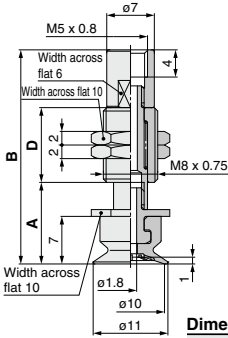
## Dimensions/With Buffer: Vacuum Inlet **Vertical**

ZP3-T10UM□J■■■-B5

ZP3-T10UM□K■■■-B5

ZP3-T13UM□J■■■-B5

ZP3-T13UM□K■■■-B5

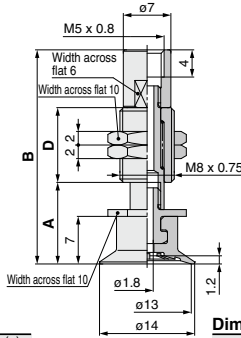


Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T10UM□☆☆3-B5	12	31.5	11	8.4	8.3
ZP3-T10UM□☆☆6-B5	15	38	14.5	9.6	9.6
ZP3-T10UM□☆☆10-B5	19	48	20.5	11.7	11.7

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆☆" indicates buffer type "J" or "K".



Dimensions (per stroke)

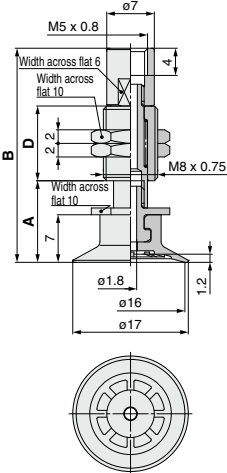
Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T13UM□☆☆3-B5	12	31.5	11	8.5	8.4
ZP3-T13UM□☆☆6-B5	15	38	14.5	9.7	9.7
ZP3-T13UM□☆☆10-B5	19	48	20.5	11.8	11.8

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆☆" indicates buffer type "J" or "K".

ZP3-T16UM□J■■■-B5

ZP3-T16UM□K■■■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T16UM□☆☆3-B5	12	31.5	11	8.6	8.5
ZP3-T16UM□☆☆6-B5	15	38	14.5	9.8	9.8
ZP3-T16UM□☆☆10-B5	19	48	20.5	11.9	11.9

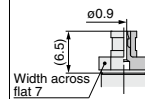
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆☆" indicates buffer type "J" or "K".

## Vacuum Inlet Dimensions

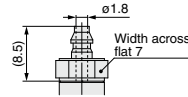
### Barb fitting

ZP3-T10UM□☆☆■-U2  
ZP3-T13UM□☆☆■-U2  
ZP3-T16UM□☆☆■-U2



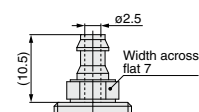
M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

ZP3-T10UM□☆☆■-U4  
ZP3-T13UM□☆☆■-U4  
ZP3-T16UM□☆☆■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

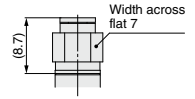
ZP3-T10UM□☆☆■-U6  
ZP3-T13UM□☆☆■-U6  
ZP3-T16UM□☆☆■-U6



M-5AU-6-X83 [Weight: 1.8 g]<sup>\*2</sup>

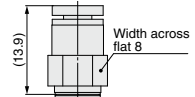
### One-touch fitting

ZP3-T10UM□☆☆■-02  
ZP3-T13UM□☆☆■-02  
ZP3-T16UM□☆☆■-02



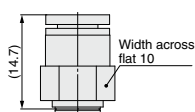
KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

ZP3-T10UM□☆☆■-04  
ZP3-T13UM□☆☆■-04  
ZP3-T16UM□☆☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

ZP3-T10UM□☆☆■-06  
ZP3-T13UM□☆☆■-06  
ZP3-T16UM□☆☆■-06



KJH06-M5 [Weight: 3.3 g]<sup>\*2</sup>

\*1 Refer to "ZP3-T▲▲UM□☆☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲UM□☆☆■-B5".

Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Flat with groove

Stroke 15, 20 mm

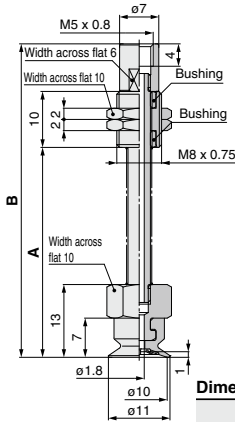
**Dimensions/With Buffer: Vacuum Inlet Vertical**

ZP3-T10UM□JB■■■-B5

ZP3-T10UM□K■■■-B5

ZP3-T13UM□JB■■■-B5

ZP3-T13UM□K■■■-B5

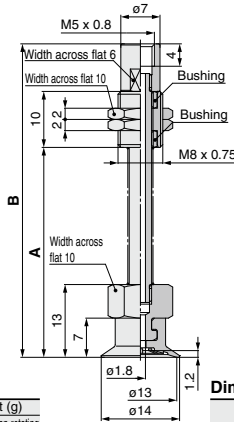


Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T10UM□☆15-B5	37.5	56	13.1	15.1
ZP3-T10UM□☆20-B5	45	63.5	16.2	16.2

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".



Dimensions (per stroke)

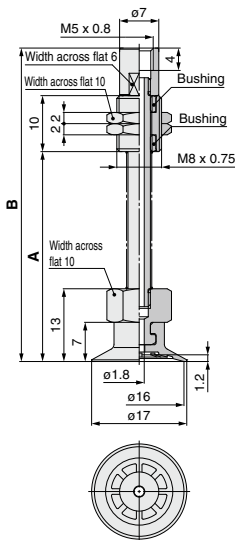
Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T13UM□☆15-B5	37.5	56	13.2	15.2
ZP3-T13UM□☆20-B5	45	63.5	16.3	16.3

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-T16UM□JB■■■-B5

ZP3-T16UM□K■■■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T16UM□☆15-B5	37.5	56	13.3	15.3
ZP3-T16UM□☆20-B5	45	63.5	16.4	16.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

**Vacuum Inlet Dimensions**

Barb fitting

One-touch fitting

ZP3-T10UM□☆■■■-U2  
ZP3-T13UM□☆■■■-U2  
ZP3-T16UM□☆■■■-U2

M-5AU-2 [Weight: 1.5 g]<sup>2</sup>

ZP3-T10UM□☆■■■-U4  
ZP3-T13UM□☆■■■-U4  
ZP3-T16UM□☆■■■-U4

ZP3-T10UM□☆■■■-02  
ZP3-T13UM□☆■■■-02  
ZP3-T16UM□☆■■■-02

KJH02-M5 [Weight: 1.9 g]<sup>2</sup>

ZP3-T10UM□☆■■■-04  
ZP3-T13UM□☆■■■-04  
ZP3-T16UM□☆■■■-04

M-5AU-4-X83 [Weight: 1.6 g]<sup>2</sup>

ZP3-T10UM□☆■■■-U6  
ZP3-T13UM□☆■■■-U6  
ZP3-T16UM□☆■■■-U6

KJH04-M5 [Weight: 2.4 g]<sup>2</sup>

ZP3-T10UM□☆■■■-06  
ZP3-T13UM□☆■■■-06  
ZP3-T16UM□☆■■■-06

M-5AU-6-X83 [Weight: 1.8 g]<sup>2</sup>

KJH06-M5 [Weight: 3.3 g]<sup>2</sup>

\*1 Refer to "ZP3-T▲▲UM□☆■■■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲UM□☆■■■-B5".

# Series ZP3

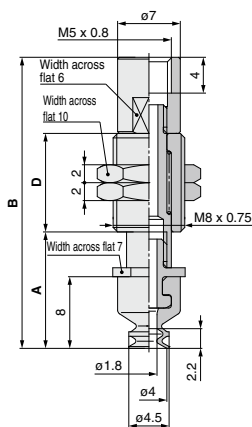
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Bellows

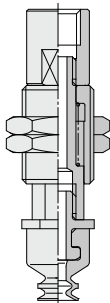
Stroke 3, 6, 10 mm

## Dimensions/With Buffer: Vacuum Inlet **Vertical**

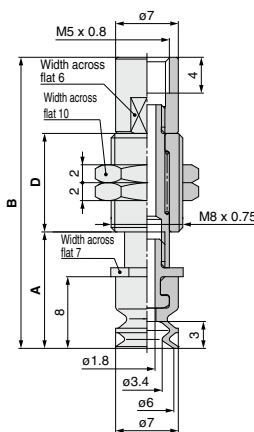
ZP3-T04B□J■■■-B5



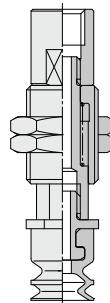
ZP3-T04B□K■■■-B5



ZP3-T06B□J■■■-B5



ZP3-T06B□K■■■-B5



### Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T04B□☆3-B5	13	32.5	11	7.4	7.3
ZP3-T04B□☆6-B5	16	39	14.5	8.6	8.6
ZP3-T04B□☆10-B5	20	49	20.5	10.5	10.5

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

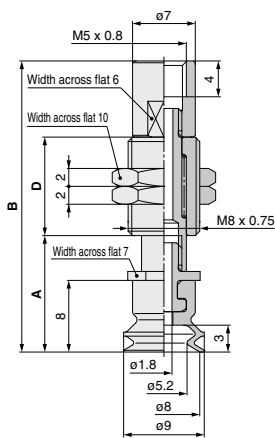
### Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T06B□☆3-B5	13	32.5	11	7.4	7.3
ZP3-T06B□☆6-B5	16	39	14.5	8.6	8.6
ZP3-T06B□☆10-B5	20	49	20.5	10.5	10.5

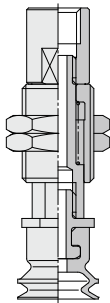
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

ZP3-T08B□J■■■-B5



ZP3-T08B□K■■■-B5



### Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T08B□☆3-B5	13	32.5	11	7.5	7.4
ZP3-T08B□☆6-B5	16	39	14.5	8.7	8.7
ZP3-T08B□☆10-B5	20	49	20.5	10.6	10.6

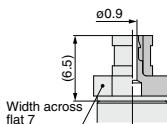
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

## Vacuum Inlet Dimensions

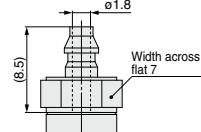
### Barb fitting

ZP3-T04B□☆■■■-U2  
ZP3-T06B□☆■■■-U2  
ZP3-T08B□☆■■■-U2



M-5AU-2 [Weight: 1.5 g]<sup>1,2</sup>

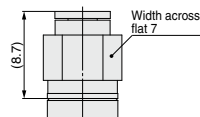
ZP3-T04B□☆■■■-U4  
ZP3-T06B□☆■■■-U4  
ZP3-T08B□☆■■■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>1,2</sup>

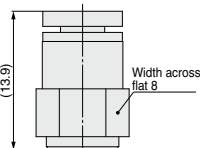
### One-touch fitting

ZP3-T04B□☆■■■-02  
ZP3-T06B□☆■■■-02  
ZP3-T08B□☆■■■-02



KJH02-M5 [Weight: 1.9 g]<sup>1,2</sup>

ZP3-T04B□☆■■■-04  
ZP3-T06B□☆■■■-04  
ZP3-T08B□☆■■■-04



KJH04-M5 [Weight: 2.4 g]<sup>1,2</sup>

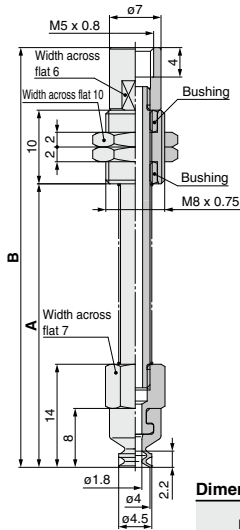
\*1 Refer to "ZP3-T▲▲B□☆■■■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲B□☆■■■-B5".

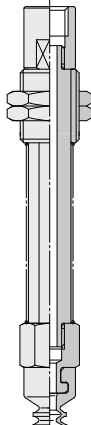
Pad diameter	ø4 to ø8
Pad type	Bellows
Stroke	15, 20 mm

Dimensions/With Buffer: Vacuum Inlet **Vertical**

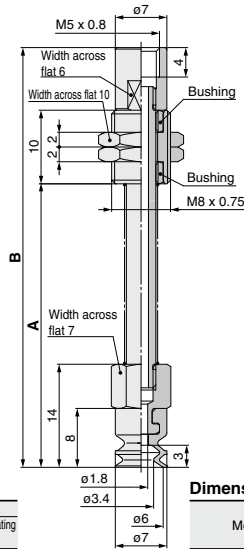
ZP3-T04B□JB■-B5



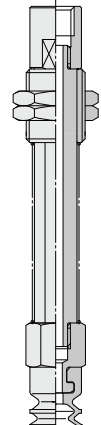
ZP3-T04B□K■-B5



ZP3-T06B□JB■-B5



ZP3-T06B□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T04B□☆15-B5	38.5	57	10.3	12.3
ZP3-T04B□☆20-B5	46	64.5	10.9	13.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

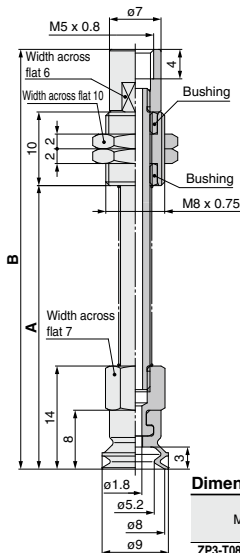
Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T06B□☆15-B5	38.5	57	10.3	12.3
ZP3-T06B□☆20-B5	46	64.5	10.9	13.4

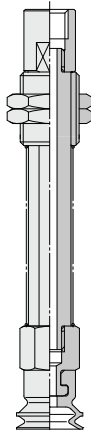
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-T08B□JB■-B5



ZP3-T08B□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T08B□☆15-B5	38.5	57	10.4	12.4
ZP3-T08B□☆20-B5	46	64.5	11.0	13.5

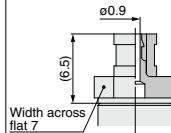
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Vacuum Inlet Dimensions

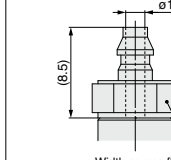
Barb fitting

- ZP3-T04B□☆■-U2
- ZP3-T06B□☆■-U2
- ZP3-T08B□☆■-U2



M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

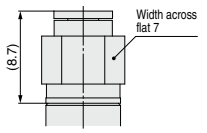
- ZP3-T04B□☆■-U4
- ZP3-T06B□☆■-U4
- ZP3-T08B□☆■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

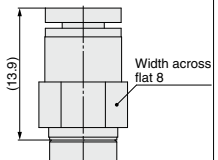
One-touch fitting

- ZP3-T04B□☆■-02
- ZP3-T06B□☆■-02
- ZP3-T08B□☆■-02



KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

- ZP3-T04B□☆■-04
- ZP3-T06B□☆■-04
- ZP3-T08B□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

\*1 Refer to "ZP3-T▲▲B□☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲B□☆■-B5".

# Series ZP3

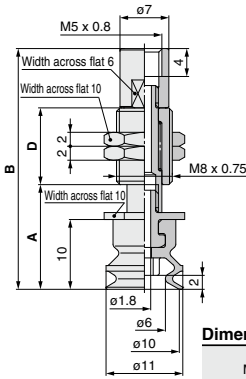
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Bellows

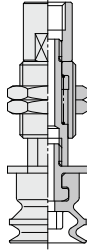
Stroke 3, 6, 10 mm

## Dimensions/With Buffer: Vacuum Inlet **Vertical**

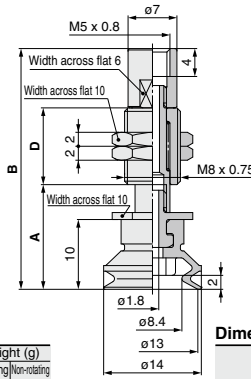
ZP3-T10B□J■■■-B5



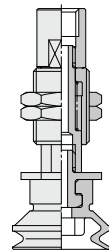
ZP3-T10B□K■■■-B5



ZP3-T13B□J■■■-B5



ZP3-T13B□K■■■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T10B□☆3-B5	15	34.5	11	8.6	8.5
ZP3-T10B□☆6-B5	18	41	14.5	9.7	9.7
ZP3-T10B□☆10-B5	22	51	20.5	11.7	11.7

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

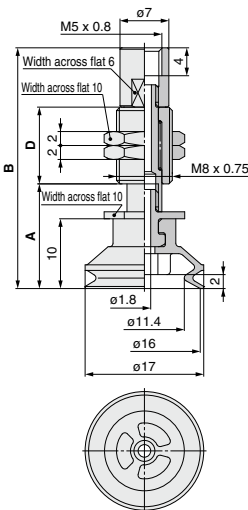
Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T13B□☆3-B5	15	34.5	11	8.7	8.6
ZP3-T13B□☆6-B5	18	41	14.5	9.8	9.8
ZP3-T13B□☆10-B5	22	51	20.5	11.8	11.8

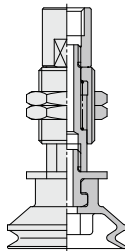
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

ZP3-T16B□J■■■-B5



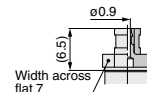
ZP3-T16B□K■■■-B5



## Vacuum Inlet Dimensions

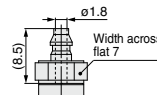
### Barb fitting

ZP3-T10B□☆■■■-U2  
ZP3-T13B□☆■■■-U2  
ZP3-T16B□☆■■■-U2



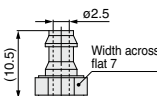
M-5AU-2 [Weight: 1.5 g]<sup>2</sup>

ZP3-T10B□☆■■■-U4  
ZP3-T13B□☆■■■-U4  
ZP3-T16B□☆■■■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>2</sup>

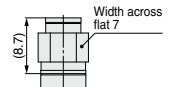
ZP3-T10B□☆■■■-U6  
ZP3-T13B□☆■■■-U6  
ZP3-T16B□☆■■■-U6



M-5AU-6-X83 [Weight: 1.8 g]<sup>2</sup>

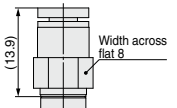
### One-touch fitting

ZP3-T10B□☆■■■-02  
ZP3-T13B□☆■■■-02  
ZP3-T16B□☆■■■-02



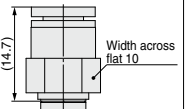
KJH02-M5 [Weight: 1.9 g]<sup>2</sup>

ZP3-T10B□☆■■■-04  
ZP3-T13B□☆■■■-04  
ZP3-T16B□☆■■■-04



KJH04-M5 [Weight: 2.4 g]<sup>2</sup>

ZP3-T10B□☆■■■-06  
ZP3-T13B□☆■■■-06  
ZP3-T16B□☆■■■-06



KJH06-M5 [Weight: 3.3 g]<sup>2</sup>

Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-T16B□☆3-B5	15	34.5	11	8.8	8.7
ZP3-T16B□☆6-B5	18	41	14.5	9.9	9.9
ZP3-T16B□☆10-B5	22	51	20.5	11.9	11.9

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

\*1 Refer to "ZP3-T▲▲B□☆■■■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲B□☆■■■-B5".



Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Bellows

Stroke 15, 20 mm

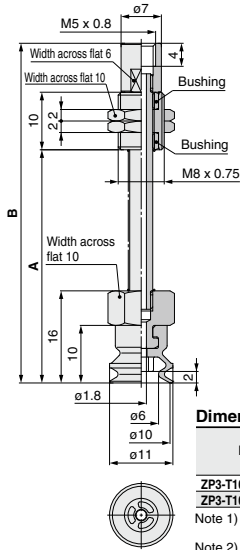
Dimensions/With Buffer: Vacuum Inlet **Vertical**

ZP3-T10B□JB■-B5

ZP3-T10B□K■-B5

ZP3-T13B□JB■-B5

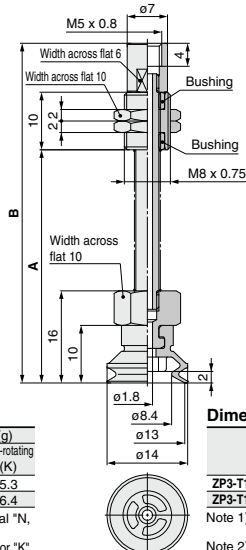
ZP3-T13B□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T10B□☆15-B5	40.5	59	13.3	15.3
ZP3-T10B□☆20-B5	48	66.5	16.4	16.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".



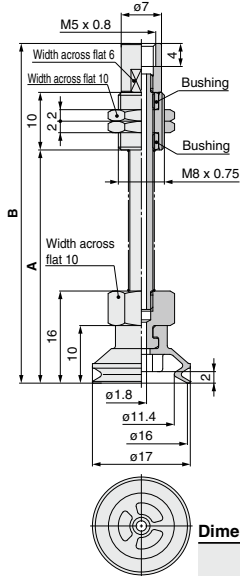
Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T13B□☆15-B5	40.5	59	13.5	15.5
ZP3-T13B□☆20-B5	48	66.5	16.6	16.6

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-T16B□JB■-B5

ZP3-T16B□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-T16B□☆15-B5	40.5	59	13.6	15.6
ZP3-T16B□☆20-B5	48	66.5	16.7	16.7

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Vacuum Inlet Dimensions

Barb fitting	One-touch fitting
<p>ZP3-T10B□☆■-U2 ZP3-T13B□☆■-U2 ZP3-T16B□☆■-U2</p> <p>M-5AU-2 [Weight: 1.5 g]<sup>*2</sup></p>	<p>ZP3-T10B□☆■-02 ZP3-T13B□☆■-02 ZP3-T16B□☆■-02</p> <p>KJH02-M5 [Weight: 1.9 g]<sup>*2</sup></p>
<p>ZP3-T10B□☆■-U4 ZP3-T13B□☆■-U4 ZP3-T16B□☆■-U4</p> <p>M-5AU-4-X83 [Weight: 1.6 g]<sup>*2</sup></p>	<p>ZP3-T10B□☆■-04 ZP3-T13B□☆■-04 ZP3-T16B□☆■-04</p> <p>KJH04-M5 [Weight: 2.4 g]<sup>*2</sup></p>
<p>ZP3-T10B□☆■-U6 ZP3-T13B□☆■-U6 ZP3-T16B□☆■-U6</p> <p>M-5AU-6-X83 [Weight: 1.8 g]<sup>*2</sup></p>	<p>ZP3-T10B□☆■-06 ZP3-T13B□☆■-06 ZP3-T16B□☆■-06</p> <p>KJH06-M5 [Weight: 3.3 g]<sup>*2</sup></p>

\*1 Refer to "ZP3-T▲▲B□☆■-B5" for dimensions.  
\*2 When calculating the weight, add the weight of the fitting to "ZP3-T▲▲B□☆■-B5".

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

## How to Order



Lateral vacuum inlet/  
With adapter

### ZP3-Y 015 U N-B3-B3

Vacuum inlet direction

Symbol	Direction
Y	Lateral

Pad diameter

Symbol	Pad diameter
015	ø1.5
02	ø2
035	ø3.5
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16

Vacuum inlet (◇)

	Symbol	Connection	ø1.5 to ø3.5	ø4 to ø8	ø10 to ø16
Female thread	B3	M3 x 0.5	●	—	—
	B5	M5 x 0.8	—	●	●
Barb fitting	U2	ø2 tubing *1	●	●	●
	U4	ø4 tubing *2	●	●	●
	U6	ø6 tubing *2	—	—	●
One-touch fitting	02	ø2	●	●	●
	04	ø4	●	●	●
	06	ø6	—	—	●

\*1 Polyurethane tube piping

\*2 Soft nylon/Polyurethane tube piping

Mounting thread size

	Symbol	Thread size	ø1.5 to ø3.5	ø4 to ø16
Female thread	B3	M3 x 0.5	●	—
	B5	M5 x 0.8	—	●

Pad material (□)

Symbol	Material
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

Pad type—Pad diameter

Pad type	Pad diameter (Symbol)								
	015	02	035	04	06	08	10	13	16
U (Flat)	●	●	●	—	—	—	—	—	—
UM (Flat with groove)	—	—	—	●	●	●	●	●	●
B (Bellows)	—	—	—	●	●	●	●	●	●

## Specifications

Pad diameter: ø1.5 to ø3.5

Model	Pad unit part no.	Adapter part no.
ZP3-Y(015/02/035)U□-B3-◇	ZP3-(015/02/035)U□	ZP3A-Y1-B3

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-3AU-2, U4: M-3AU-4-X83

02: KJH02-M3, 04: KJH04-M3-X83

Pad diameter: ø4 to ø8

Model	Pad unit part no.	Adapter part no.
ZP3-Y(04/06/08)UM□-B5-◇	ZP3-(04/06/08)UM□	ZP3A-Y2-B5
ZP3-Y(04/06/08)B□-B5-◇	ZP3-(04/06/08)B□	

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-5AU-2, U4: M-5AU-4-X83

02: KJH02-M5, 04: KJH04-M5

Pad diameter: ø10 to ø16

Model	Pad unit part no.	Adapter part no.
ZP3-Y(10/13/16)UM□-B5-◇	ZP3-(10/13/16)UM□	ZP3A-Y3-B5
ZP3-Y(10/13/16)B□-B5-◇	ZP3-(10/13/16)B□	

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇) U2: M-5AU-2, U4: M-5AU-4-X83

U6: M-5AU-6-X83, 02: KJH02-M5

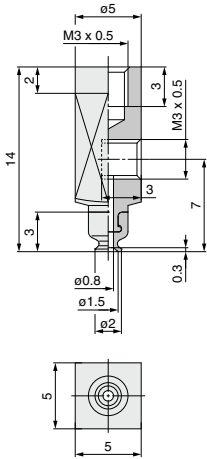
04: KJH04-M5, 06: KJH06-M5

Dimensions/With Adapter: Vacuum Inlet **Lateral**

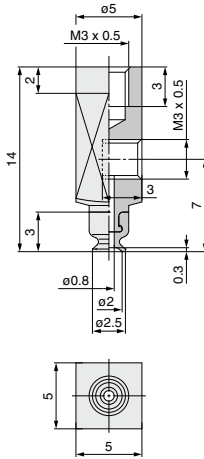
Pad diameter  $\phi 1.5$  to  $\phi 3.5$

Pad type Flat

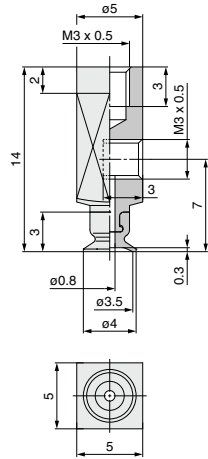
**ZP3-Y015U□-B3-B3**  
[Weight: 1.9 g]



**ZP3-Y02U□-B3-B3**  
[Weight: 1.9 g]



**ZP3-Y035U□-B3-B3**  
[Weight: 1.9 g]



**Vacuum Inlet Dimensions**

Barb fitting	<p><b>ZP3-Y015U□-B3-U2</b> <b>ZP3-Y02U□-B3-U2</b> <b>ZP3-Y035U□-B3-U2</b></p> <p><b>M-3AU-2</b> [Weight: 0.7 g]<sup>*2</sup></p>	<p><b>ZP3-Y015U□-B3-U4</b> <b>ZP3-Y02U□-B3-U4</b> <b>ZP3-Y035U□-B3-U4</b></p> <p><b>M-3AU-4-X83</b> [Weight: 0.7 g]<sup>*2</sup></p>	<p><b>ZP3</b> <b>ZP2</b> <b>ZP2V</b> <b>ZP</b> <b>ZPT</b> <b>ZPR</b> <b>XT661</b></p>
	<p><b>ZP3-Y015U□-B3-O2</b> <b>ZP3-Y02U□-B3-O2</b> <b>ZP3-Y035U□-B3-O2</b></p> <p><b>KJH02-M3</b> [Weight: 1.1 g]<sup>*2</sup></p>	<p><b>ZP3-Y015U□-B3-O4</b> <b>ZP3-Y02U□-B3-O4</b> <b>ZP3-Y035U□-B3-O4</b></p> <p><b>KJH04-M3-X83</b> [Weight: 1.9 g]<sup>*2</sup></p>	

\*1 Refer to "ZP3-Y▲▲▲U□-B3-B3" for dimensions.

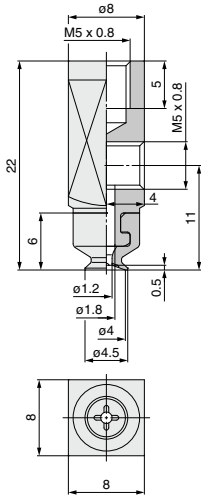
\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲▲U□-B3-B3".

## Dimensions/With Adapter: Vacuum Inlet **Lateral**

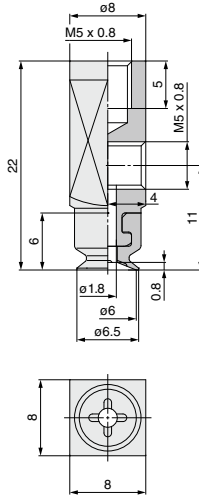
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

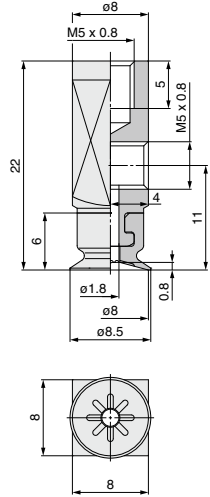
**ZP3-Y04UM□-B5-B5**  
[Weight: 7.0 g]



**ZP3-Y06UM□-B5-B5**  
[Weight: 7.0 g]



**ZP3-Y08UM□-B5-B5**  
[Weight: 7.0 g]



## Vacuum Inlet Dimensions

Barb fitting	<p><b>ZP3-Y04UM□-B5-U2</b> <b>ZP3-Y06UM□-B5-U2</b> <b>ZP3-Y08UM□-B5-U2</b></p> <p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>2</sup></p>	<p><b>ZP3-Y04UM□-B5-U4</b> <b>ZP3-Y06UM□-B5-U4</b> <b>ZP3-Y08UM□-B5-U4</b></p> <p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>2</sup></p>
	One-touch fitting	<p><b>ZP3-Y04UM□-B5-02</b> <b>ZP3-Y06UM□-B5-02</b> <b>ZP3-Y08UM□-B5-02</b></p> <p><b>KJH02-M5</b> [Weight: 1.9 g]<sup>2</sup></p>

\*1 Refer to "ZP3-Y▲▲UM□-B5-B5" for dimensions.

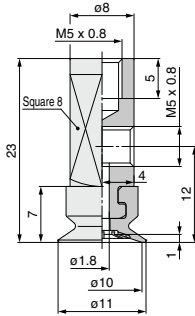
\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲UM□-B5-B5".

Dimensions/With Adapter: Vacuum Inlet **Lateral**

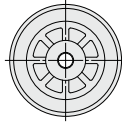
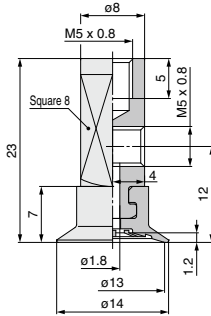
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Flat with groove

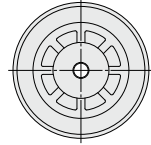
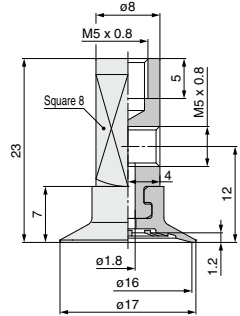
**ZP3-Y10UM□-B5-B5**  
[Weight: 7.7 g]



**ZP3-Y13UM□-B5-B5**  
[Weight: 7.8 g]



**ZP3-Y16UM□-B5-B5**  
[Weight: 7.9 g]



Vacuum Inlet Dimensions

Barb fitting	<p><b>ZP3-Y10UM□-B5-U2</b> <b>ZP3-Y13UM□-B5-U2</b> <b>ZP3-Y16UM□-B5-U2</b></p> <p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>1,2</sup></p>	<p><b>ZP3-Y10UM□-B3-U4</b> <b>ZP3-Y13UM□-B3-U4</b> <b>ZP3-Y16UM□-B3-U4</b></p> <p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>1,2</sup></p>	<p><b>ZP3-Y10UM□-B5-U6</b> <b>ZP3-Y13UM□-B5-U6</b> <b>ZP3-Y16UM□-B5-U6</b></p> <p><b>M-5AU-6-X83</b> [Weight: 1.8 g]<sup>1,2</sup></p>	
	One-touch fitting	<p><b>ZP3-Y10UM□-B5-02</b> <b>ZP3-Y13UM□-B5-02</b> <b>ZP3-Y16UM□-B5-02</b></p> <p><b>KJH02-M5</b> [Weight: 1.9 g]<sup>1,2</sup></p>	<p><b>ZP3-Y10UM□-B3-04</b> <b>ZP3-Y13UM□-B3-04</b> <b>ZP3-Y16UM□-B3-04</b></p> <p><b>KJH04-M5</b> [Weight: 2.4 g]<sup>1,2</sup></p>	<p><b>ZP3-Y10UM□-B5-06</b> <b>ZP3-Y13UM□-B5-06</b> <b>ZP3-Y16UM□-B5-06</b></p> <p><b>KJH06-M5</b> [Weight: 3.3 g]<sup>1,2</sup></p>

\*1 Refer to "ZP3-Y▲▲UM□-B5-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲UM□-B5-B5".

**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**  
**ZPR**

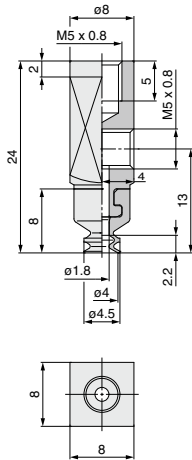
**XT661**

## Dimensions/With Adapter: Vacuum Inlet **Lateral**

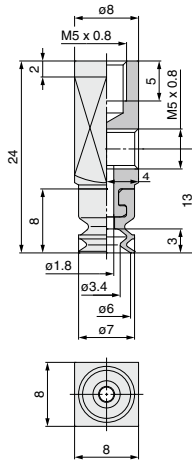
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Bellows

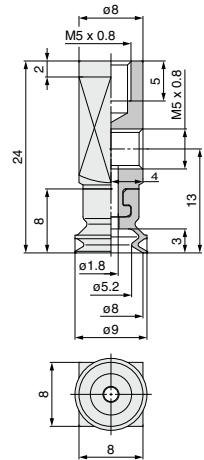
**ZP3-Y04B□-B5-B5**  
[Weight: 7.0 g]



**ZP3-Y06B□-B5-B5**  
[Weight: 7.0 g]



**ZP3-Y08B□-B5-B5**  
[Weight: 7.1 g]



### Vacuum Inlet Dimensions

Barb fitting	<p><b>ZP3-Y04B□-B5-U2</b> <b>ZP3-Y06B□-B5-U2</b> <b>ZP3-Y08B□-B5-U2</b></p> <p><b>M-5AU-2</b> [Weight: 0.7 g]<sup>2</sup></p>	<p><b>ZP3-Y04B□-B5-U4</b> <b>ZP3-Y06B□-B5-U4</b> <b>ZP3-Y08B□-B5-U4</b></p> <p><b>M-5AU-4-X83</b> [Weight: 0.7 g]<sup>2</sup></p>
	One-touch fitting	<p><b>ZP3-Y04B□-B5-02</b> <b>ZP3-Y06B□-B5-02</b> <b>ZP3-Y08B□-B5-02</b></p> <p><b>KJH02-M5</b> [Weight: 1.1 g]<sup>2</sup></p>

\*1 Refer to "ZP3-Y▲▲B□-B5-B5" for dimensions.

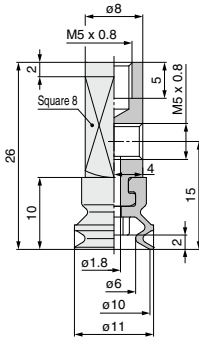
\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲B□-B5-B5".

Dimensions/With Adapter: Vacuum Inlet **Lateral**

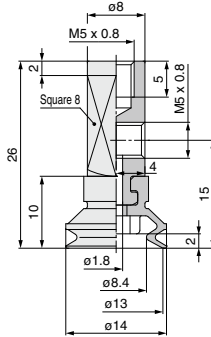
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type **Bellows**

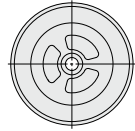
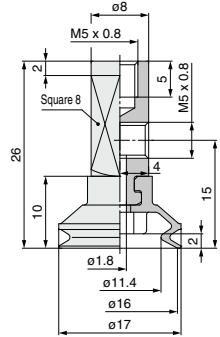
**ZP3-Y10B□-B5-B5**  
[Weight: 7.9 g]



**ZP3-Y13B□-B5-B5**  
[Weight: 8.1 g]



**ZP3-Y16B□-B5-B5**  
[Weight: 8.2 g]



**Vacuum Inlet Dimensions**

Barb fitting	<p><b>ZP3-Y10B□-B5-U2</b> <b>ZP3-Y13B□-B5-U2</b> <b>ZP3-Y16B□-B5-U2</b></p> <p><b>M-5AU-2</b> [Weight: 1.5 g]<sup>2</sup></p>	<p><b>ZP3-Y10B□-B5-U4</b> <b>ZP3-Y13B□-B5-U4</b> <b>ZP3-Y16B□-B5-U4</b></p> <p><b>M-5AU-4-X83</b> [Weight: 1.6 g]<sup>2</sup></p>	<p><b>ZP3-Y10B□-B5-U6</b> <b>ZP3-Y13B□-B5-U6</b> <b>ZP3-Y16B□-B5-U6</b></p> <p><b>M-5AU-6-X83</b> [Weight: 1.8 g]<sup>2</sup></p>	
	One-touch fitting	<p><b>ZP3-Y10B□-B5-02</b> <b>ZP3-Y13B□-B5-02</b> <b>ZP3-Y16B□-B5-02</b></p> <p><b>KJH02-M5</b> [Weight: 1.9 g]<sup>2</sup></p>	<p><b>ZP3-Y10B□-B5-04</b> <b>ZP3-Y13B□-B5-04</b> <b>ZP3-Y16B□-B5-04</b></p> <p><b>KJH04-M5</b> [Weight: 2.4 g]<sup>2</sup></p>	<p><b>ZP3-Y10B□-B5-06</b> <b>ZP3-Y13B□-B5-06</b> <b>ZP3-Y16B□-B5-06</b></p> <p><b>KJH06-M5</b> [Weight: 3.3 g]<sup>2</sup></p>

\*1 Refer to "ZP3-Y▲▲B□-B5-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲B□-B5-B5".

**ZP3**

**ZP2**

**ZP2V**

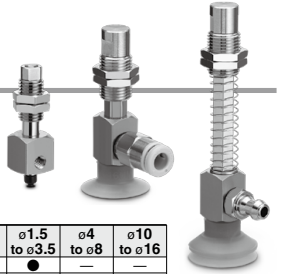
**ZP**

**ZPT**

**ZPR**

**XT661**

## How to Order



Lateral vacuum inlet/  
With buffer

### ZP3-Y 015 U N J 3-B3

Vacuum inlet direction

Symbol	Direction
Y	Lateral

Pad diameter

Symbol	Pad diameter
015	ø1.5
02	ø2
035	ø3.5
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16

Pad type—Pad diameter

Pad type	Pad diameter (Symbol)	015	02	035	04	06
U (Flat)		●	●	●	—	—
UM (Flat with groove)		—	—	—	●	●
B (Bellows)		—	—	—	●	●

Pad type	Pad diameter (Symbol)	08	10	13	16
U (Flat)		—	—	—	—
UM (Flat with groove)		●	●	●	●
B (Bellows)		●	●	●	●

Vacuum inlet (◇)

	Symbol	Connection	ø1.5 to ø3.5	ø4 to ø8	ø10 to ø16
Female thread	B3	M3 x 0.5	—	—	—
	B5	M5 x 0.8	—	—	—
Barb fitting	U2	ø2 tubing *1	●	●	—
	U4	ø4 tubing *2	●	●	●
One-touch fitting	02	ø2 tubing	●	●	●
	04	ø4 tubing	●	●	●
	06	ø6 tubing	—	—	●

\*1 Polyurethane tube piping

\*2 Soft nylon/Polyurethane tube piping

Stroke (■)—Buffer specifications

Stroke	ø1.5 to ø3.5		ø4 to ø16		
	J	K	J	JB	K
3	—	—	—	—	—
6	●	●	—	—	●
10	—	—	●	—	●
15	—	—	—	●	●
20	—	—	—	—	●

Buffer specifications (☆)

J	Rotating
JB	Rotating, With bushing
K	Non-rotating

Pad material (□)

Symbol	Material
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

## Specifications

Pad diameter	Buffer specifications	Stroke (mm)	Tightening torque (N·m)	Mounting	Spring reactive force	
					At 0 stroke (N)	At full stroke (N)
ø1.5 to ø3.5	J	3, 6	1.5 to 1.8 2.0 to 2.5	M6 x 0.75 M8 x 0.75	0.2	0.4
	K					0.5
ø4 to ø16	J	3, 6, 10 15, 20	2.0 to 2.5	M8 x 0.75	0.2	0.5
	JB					0.5
	K	3, 6, 10, 15, 20				

## Replacement Part No.

Pad diameter: ø1.5 to ø3.5

Model	Pad unit part no.	Buffer assembly part no. (Note 3)
ZP3-Y(015/02/035)□(J/K)3-◇	ZP3-(015/02/035)U□	ZP3B-Y1(J/K)3-B3
ZP3-Y(015/02/035)U□(J/K)6-◇		ZP3B-Y1(J/K)6-B3

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇): U2: M-3AU-2, U4: M-3AU-4-X83  
02: KJH02-M3, 04: KJH04-M3-X83

Pad diameter: ø4 to ø8

Model	Pad unit part no.	Buffer assembly part no. (Note 3)
ZP3-Y(04/06/08)UM□(J/K)3-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(J/K)3-B5
ZP3-Y(04/06/08)B□(J/K)3-◇		ZP3B-Y2A(J/K)3-B5
ZP3-Y(04/06/08)UM□(J/K)6-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(J/K)6-B5
ZP3-Y(04/06/08)B□(J/K)6-◇		ZP3B-Y2A(J/K)6-B5
ZP3-Y(04/06/08)UM□(J/K)10-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(J/K)10-B5
ZP3-Y(04/06/08)B□(J/K)10-◇		ZP3B-Y2A(J/K)10-B5
ZP3-Y(04/06/08)UM□(JB/K)15-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(JB/K)15-B5
ZP3-Y(04/06/08)B□(JB/K)15-◇		ZP3B-Y2A(JB/K)15-B5
ZP3-Y(04/06/08)UM□(JB/K)20-◇	ZP3-(04/06/08)UM□	ZP3B-Y2A(JB/K)20-B5
ZP3-Y(04/06/08)B□(JB/K)20-◇		ZP3B-Y2A(JB/K)20-B5

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇): U2: M-5AU-2, U4: M-5AU-4-X83  
02: KJH02-M5, 04: KJH04-M5

Pad diameter: ø10 to ø16

Model	Pad unit part no.	Buffer assembly part no. (Note 3)
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ZP3-Y(10/13/16)UM□(J/K)3-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(J/K)3-B5
ZP3-Y(10/13/16)B□(J/K)3-◇		ZP3B-Y2B(J/K)3-B5
ZP3-Y(10/13/16)UM□(J/K)6-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(J/K)6-B5
ZP3-Y(10/13/16)B□(J/K)6-◇		ZP3B-Y2B(J/K)6-B5
ZP3-Y(10/13/16)UM□(J/K)10-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(J/K)10-B5
ZP3-Y(10/13/16)B□(J/K)10-◇		ZP3B-Y2B(J/K)10-B5
ZP3-Y(10/13/16)UM□(JB/K)15-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(JB/K)15-B5
ZP3-Y(10/13/16)B□(JB/K)15-◇		ZP3B-Y2B(JB/K)15-B5
ZP3-Y(10/13/16)UM□(JB/K)20-◇	ZP3-(10/13/16)UM□	ZP3B-Y2B(JB/K)20-B5
ZP3-Y(10/13/16)B□(JB/K)20-◇		ZP3B-Y2B(JB/K)20-B5

Note 1) □ in the table indicates the pad material.

Note 2) ◇ in the table indicates the vacuum inlet.

Note 3) Fitting is ordered separately.

Suffix of how to order (◇): U2: M-5AU-2, U4: M-5AU-4-X83  
U6: M-5AU-6-X83, 02: KJH02-M5  
04: KJH04-M5, 06: KJH06-M5



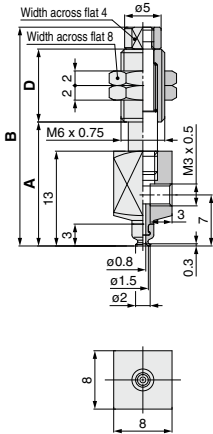
Pad diameter  $\phi 1.5$  to  $\phi 3.5$

Pad type Flat

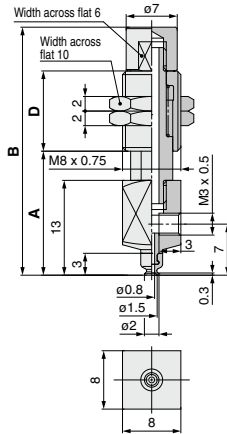
Stroke 3, 6 mm

Dimensions/With Buffer: Vacuum Inlet **Lateral**

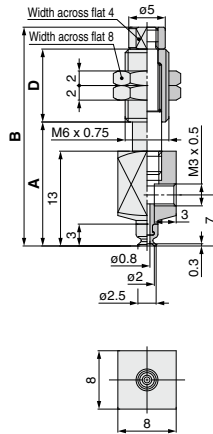
ZP3-Y015U□J■-B3



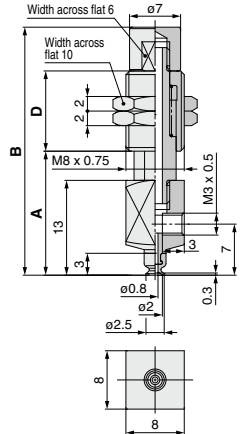
ZP3-Y015U□K■-B3



ZP3-Y02U□J■-B3



ZP3-Y02U□K■-B3



Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-Y015U□J3-B3	17	30	10	7.7
ZP3-Y015U□J6-B3	20	37	14	8.6

Note) □ in the table indicates the pad material \*N, S, U, F, GN, GS.\*

Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-Y015U□K3-B3	17	34	11	11.0
ZP3-Y015U□K6-B3	20	40.5	14.5	12.2

Note) □ in the table indicates the pad material \*N, S, U, F, GN, GS.\*

Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-Y02U□J3-B3	17	30	10	7.7
ZP3-Y02U□J6-B3	20	37	14	8.6

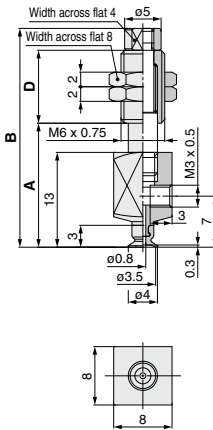
Note) □ in the table indicates the pad material \*N, S, U, F, GN, GS.\*

Dimensions (per stroke)

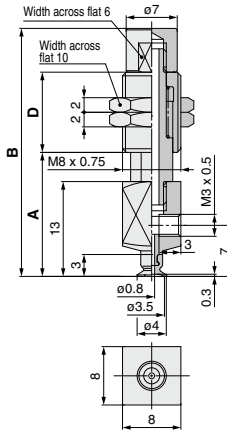
Model	A	B	D	Weight (g)
ZP3-Y02U□K3-B3	17	34	11	11.0
ZP3-Y02U□K6-B3	20	40.5	14.5	12.2

Note) □ in the table indicates the pad material \*N, S, U, F, GN, GS.\*

ZP3-Y035U□J■-B3



ZP3-Y035U□K■-B3



Dimensions (per stroke)

Model	A	B	D	Weight (g)
ZP3-Y035U□J3-B3	17	30	10	7.7
ZP3-Y035U□J6-B3	20	37	14	8.6

Note) □ in the table indicates the pad material \*N, S, U, F, GN, GS.\*

Dimensions (per stroke)

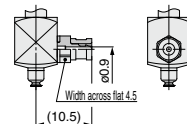
Model	A	B	D	Weight (g)
ZP3-Y035U□K3-B3	17	34	11	11.0
ZP3-Y035U□K6-B3	20	40.5	14.5	12.2

Note) □ in the table indicates the pad material \*N, S, U, F, GN, GS.\*

Vacuum Inlet Dimensions

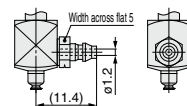
Barb fitting

ZP3-Y015U□J■-U2  
ZP3-Y02U□J■-U2  
ZP3-Y035U□J■-U2



M-3AU-2 [Weight: 0.7 g]\*2

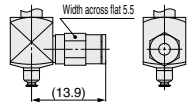
ZP3-Y015U□J■-U4  
ZP3-Y02U□J■-U4  
ZP3-Y035U□J■-U4



M-3AU-4-X83 [Weight: 0.7 g]\*2

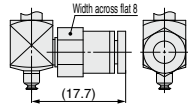
One-touch fitting

ZP3-Y015U□J■-02  
ZP3-Y02U□J■-02  
ZP3-Y035U□J■-02



KJH02-M3 [Weight: 1.1 g]\*2

ZP3-Y015U□J■-04  
ZP3-Y02U□J■-04  
ZP3-Y035U□J■-04



KJH04-M3-X83 [Weight: 1.9 g]\*2

\*1 Refer to "ZP3-Y▲▲▲U□J■-B3" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲▲U□J■-B3".

# Series ZP3

Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

Stroke 3, 6, 10 mm

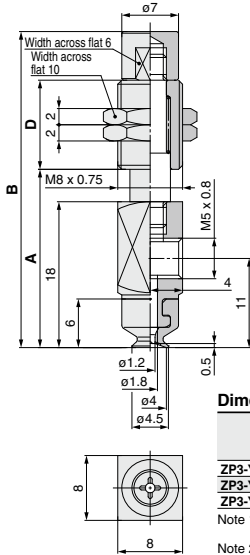
## Dimensions/With Buffer: Vacuum Inlet **Lateral**

ZP3-Y04UM□J■-B5

ZP3-Y04UM□K■-B5

ZP3-Y06UM□J■-B5

ZP3-Y06UM□K■-B5

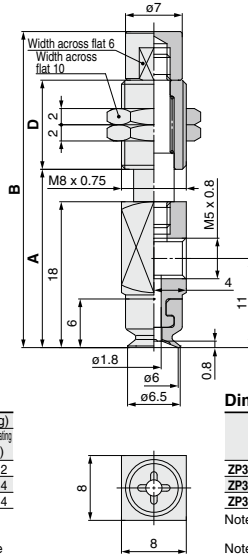


Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y04UM□3-B5	22.5	40	11	12.8	12.2
ZP3-Y04UM□6-B5	25	46	14.5	14.2	13.4
ZP3-Y04UM□10-B5	29	56	20.5	16.6	15.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆☆" indicates buffer type "J" or "K".



Dimensions (per stroke)

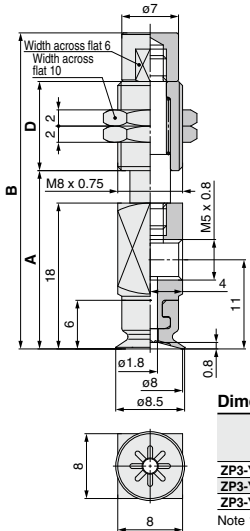
Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y06UM□3-B5	22.5	40	11	12.8	12.2
ZP3-Y06UM□6-B5	25	46	14.5	14.2	13.4
ZP3-Y06UM□10-B5	29	56	20.5	16.6	15.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆☆" indicates buffer type "J" or "K".

ZP3-Y08UM□J■-B5

ZP3-Y08UM□K■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y08UM□3-B5	22.5	40	11	12.8	12.2
ZP3-Y08UM□6-B5	25	46	14.5	14.2	13.4
ZP3-Y08UM□10-B5	29	56	20.5	16.6	15.4

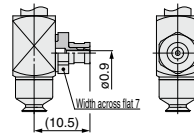
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆☆" indicates buffer type "J" or "K".

## Vacuum Inlet Dimensions

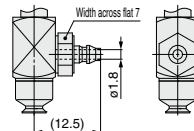
### Barb fitting

ZP3-Y04UM□☆☆-U2  
ZP3-Y06UM□☆☆-U2  
ZP3-Y08UM□☆☆-U2



M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

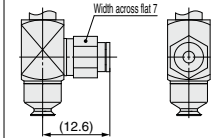
ZP3-Y04UM□☆☆-U4  
ZP3-Y06UM□☆☆-U4  
ZP3-Y08UM□☆☆-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

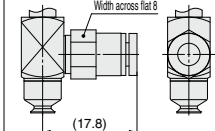
### One-touch fitting

ZP3-Y04UM□☆☆-02  
ZP3-Y06UM□☆☆-02  
ZP3-Y08UM□☆☆-02



KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

ZP3-Y04UM□☆☆-04  
ZP3-Y06UM□☆☆-04  
ZP3-Y08UM□☆☆-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

\*1 Refer to "ZP3-Y▲▲UM□☆☆-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲UM□☆☆-B5".

Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Flat with groove

Stroke 15, 20 mm

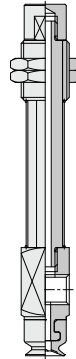
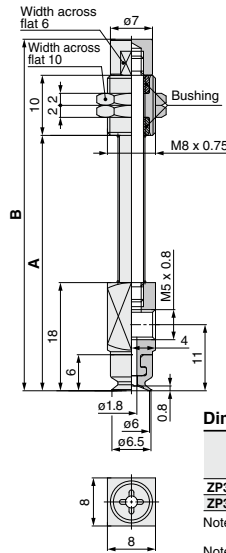
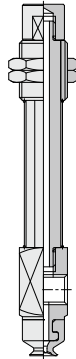
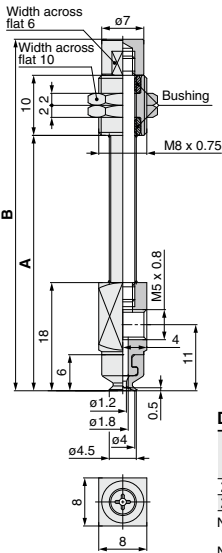
Dimensions/With Buffer: Vacuum Inlet **Lateral**

ZP3-Y04UM□JB■-B5

ZP3-Y04UM□K■-B5

ZP3-Y06UM□JB■-B5

ZP3-Y06UM□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y04UM□☆15-B5	42.5	59	14.3	15.5
ZP3-Y04UM□☆20-B5	50	66.5	15.1	16.6

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

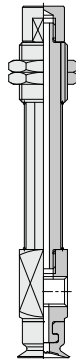
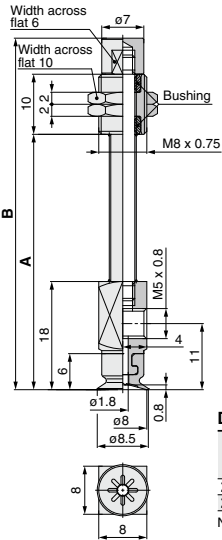
Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y06UM□☆15-B5	42.5	59	14.3	15.5
ZP3-Y06UM□☆20-B5	50	66.5	15.1	16.6

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-Y08UM□JB■-B5

ZP3-Y08UM□K■-B5



Dimensions (per stroke)

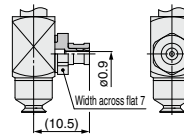
Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y08UM□☆15-B5	42.5	59	14.3	15.5
ZP3-Y08UM□☆20-B5	50	66.5	15.1	16.6

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Vacuum Inlet Dimensions

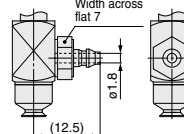
Barb fitting

- ZP3-Y04UM□☆☆-U2
- ZP3-Y06UM□☆☆-U2
- ZP3-Y08UM□☆☆-U2



M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

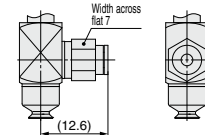
- ZP3-Y04UM□☆☆-U4
- ZP3-Y06UM□☆☆-U4
- ZP3-Y08UM□☆☆-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

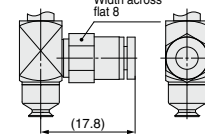
One-touch fitting

- ZP3-Y04UM□☆☆-02
- ZP3-Y06UM□☆☆-02
- ZP3-Y08UM□☆☆-02



KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

- ZP3-Y04UM□☆☆-04
- ZP3-Y06UM□☆☆-04
- ZP3-Y08UM□☆☆-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

\*1 Refer to "ZP3-Y▲▲UM□☆☆-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲UM□☆☆-B5".

Pad diameter  $\varnothing 10$  to  $\varnothing 16$

Pad type Flat with groove

Stroke 3, 6, 10 mm

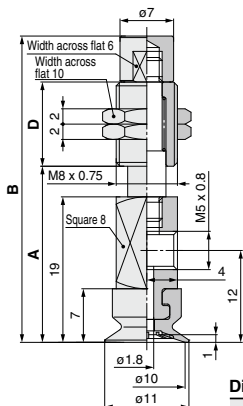
## Dimensions/With Buffer: Vacuum Inlet **Lateral**

ZP3-Y10UM□J■-B5

ZP3-Y10UM□K■-B5

ZP3-Y13UM□J■-B5

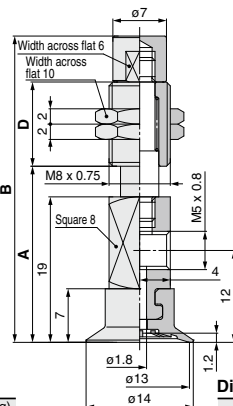
ZP3-Y13UM□K■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y10UM□☆3-B5	23.5	41	11	13.6	13.0
ZP3-Y10UM□☆6-B5	26	47	14.5	14.9	14.2
ZP3-Y10UM□☆10-B5	30	57	20.5	17.3	16.1

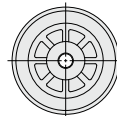
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "J" or "K".



Dimensions (per stroke)

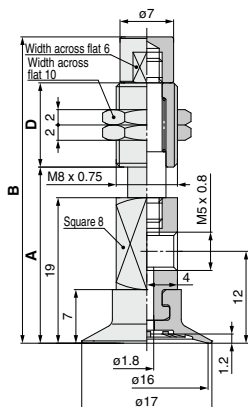
Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y13UM□☆3-B5	23.5	41	11	13.7	13.1
ZP3-Y13UM□☆6-B5	26	47	14.5	15.0	14.3
ZP3-Y13UM□☆10-B5	30	57	20.5	17.4	16.2

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "J" or "K".



ZP3-Y16UM□J■-B5

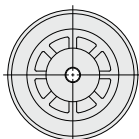
ZP3-Y16UM□K■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y16UM□☆3-B5	23.5	41	11	13.8	13.2
ZP3-Y16UM□☆6-B5	26	47	14.5	15.1	14.4
ZP3-Y16UM□☆10-B5	30	57	20.5	17.5	16.3

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "J" or "K".

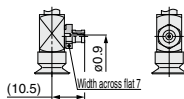


## Vacuum Inlet Dimensions

Barb fitting

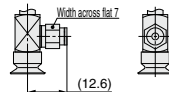
One-touch fitting

ZP3-Y10UM□☆■-U2  
ZP3-Y13UM□☆■-U2  
ZP3-Y16UM□☆■-U2



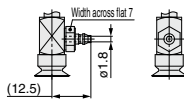
M-5AU-2 [Weight: 1.5 g]<sup>2</sup>

ZP3-Y10UM□☆■-02  
ZP3-Y13UM□☆■-02  
ZP3-Y16UM□☆■-02

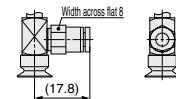


KJH02-M5 [Weight: 1.9 g]<sup>2</sup>

ZP3-Y10UM□☆■-U4  
ZP3-Y13UM□☆■-U4  
ZP3-Y16UM□☆■-U4

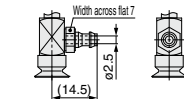


M-5AU-4-X83 [Weight: 1.6 g]<sup>2</sup>

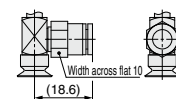


KJH04-M5 [Weight: 2.4 g]<sup>2</sup>

ZP3-Y10UM□☆■-U6  
ZP3-Y13UM□☆■-U6  
ZP3-Y16UM□☆■-U6



M-5AU-6-X83 [Weight: 1.8 g]<sup>2</sup>



KJH06-M5 [Weight: 3.3 g]<sup>2</sup>

\*1 Refer to "ZP3-Y▲▲UM□☆■-B5" for dimensions.  
\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲UM□☆■-B5".

Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Flat with groove

Stroke 15, 20 mm

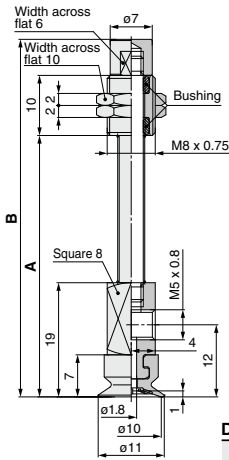
Dimensions/With Buffer: Vacuum Inlet **Lateral**

ZP3-Y10UM  $\square$  JB  $\blacksquare$  -B5

ZP3-Y10UM  $\square$  K  $\blacksquare$  -B5

ZP3-Y13UM  $\square$  JB  $\blacksquare$  -B5

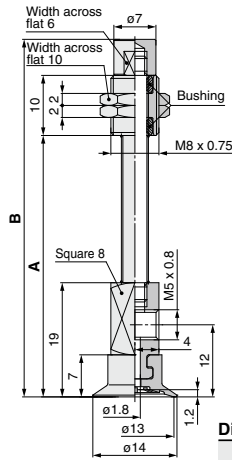
ZP3-Y13UM  $\square$  K  $\blacksquare$  -B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y10UM $\square$ 15-B5	43.5	60	15.0	16.2
ZP3-Y10UM $\square$ 20-B5	51	67.5	15.8	17.3

Note 1)  $\square$  in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".



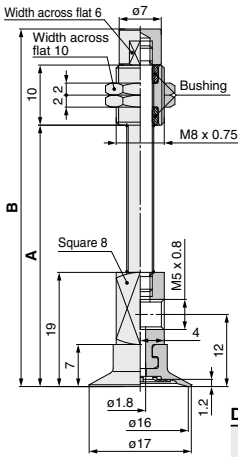
Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y13UM $\square$ 15-B5	43.5	60	15.1	16.3
ZP3-Y13UM $\square$ 20-B5	51	67.5	15.9	17.4

Note 1)  $\square$  in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-Y16UM  $\square$  JB  $\blacksquare$  -B5

ZP3-Y16UM  $\square$  K  $\blacksquare$  -B5



Dimensions (per stroke)

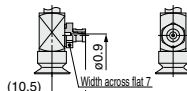
Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y16UM $\square$ 15-B5	43.5	60	15.2	16.4
ZP3-Y16UM $\square$ 20-B5	51	67.5	16.0	17.5

Note 1)  $\square$  in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Vacuum Inlet Dimensions

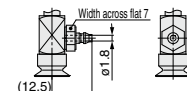
Barb fitting

ZP3-Y10UM  $\square$  ☆  $\blacksquare$  -U2  
ZP3-Y13UM  $\square$  ☆  $\blacksquare$  -U2  
ZP3-Y16UM  $\square$  ☆  $\blacksquare$  -U2



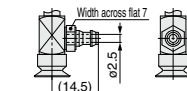
M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

ZP3-Y10UM  $\square$  ☆  $\blacksquare$  -U4  
ZP3-Y13UM  $\square$  ☆  $\blacksquare$  -U4  
ZP3-Y16UM  $\square$  ☆  $\blacksquare$  -U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

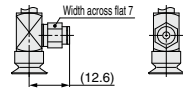
ZP3-Y10UM  $\square$  ☆  $\blacksquare$  -U6  
ZP3-Y13UM  $\square$  ☆  $\blacksquare$  -U6  
ZP3-Y16UM  $\square$  ☆  $\blacksquare$  -U6



M-5AU-6-X83 [Weight: 1.8 g]<sup>\*2</sup>

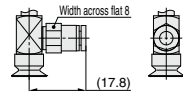
One-touch fitting

ZP3-Y10UM  $\square$  ☆  $\blacksquare$  -02  
ZP3-Y13UM  $\square$  ☆  $\blacksquare$  -02  
ZP3-Y16UM  $\square$  ☆  $\blacksquare$  -02



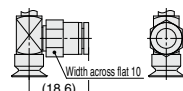
KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

ZP3-Y10UM  $\square$  ☆  $\blacksquare$  -04  
ZP3-Y13UM  $\square$  ☆  $\blacksquare$  -04  
ZP3-Y16UM  $\square$  ☆  $\blacksquare$  -04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

ZP3-Y10UM  $\square$  ☆  $\blacksquare$  -06  
ZP3-Y13UM  $\square$  ☆  $\blacksquare$  -06  
ZP3-Y16UM  $\square$  ☆  $\blacksquare$  -06



KJH06-M5 [Weight: 3.3 g]<sup>\*2</sup>

\*1 Refer to "ZP3-Y $\blacktriangle$ ▲UM  $\square$  ☆  $\blacksquare$  -B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y $\blacktriangle$ ▲UM  $\square$  ☆  $\blacksquare$  -B5".

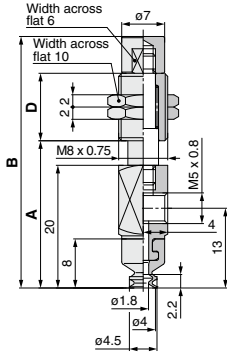
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type Bellows

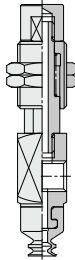
Stroke 3, 6, 10 mm

## Dimensions/With Buffer: Vacuum Inlet **Lateral**

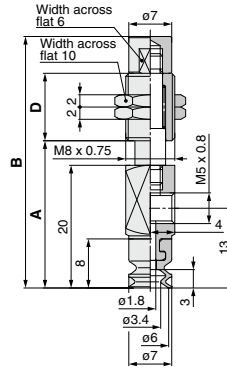
ZP3-Y04B□J■-B5



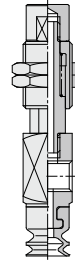
ZP3-Y04B□K■-B5



ZP3-Y06B□J■-B5



ZP3-Y06B□K■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y04B□☆3-B5	24.5	42	11	12.8	12.2
ZP3-Y04B□☆6-B5	27	48	14.5	14.2	13.4
ZP3-Y04B□☆10-B5	31	58	20.5	16.6	15.4

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

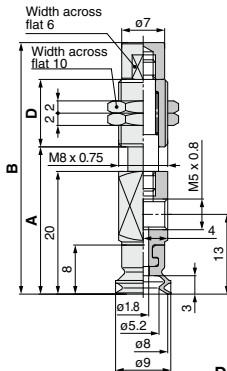
Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y06B□☆3-B5	24.5	42	11	12.8	12.2
ZP3-Y06B□☆6-B5	27	48	14.5	14.2	13.4
ZP3-Y06B□☆10-B5	31	58	20.5	16.6	15.4

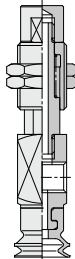
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

ZP3-Y08B□J■-B5



ZP3-Y08B□K■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y08B□☆3-B5	24.5	42	11	12.9	12.3
ZP3-Y08B□☆6-B5	27	48	14.5	14.3	13.5
ZP3-Y08B□☆10-B5	31	58	20.5	16.7	15.5

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

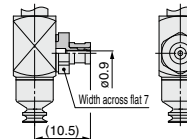
Note 2) The symbol "☆" indicates buffer type "J" or "K".

## Vacuum Inlet Dimensions

Barb fitting

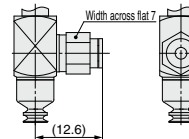
One-touch fitting

ZP3-Y04B□☆■-U2  
ZP3-Y06B□☆■-U2  
ZP3-Y08B□☆■-U2



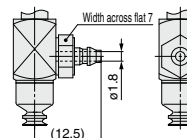
M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

ZP3-Y04B□☆■-02  
ZP3-Y06B□☆■-02  
ZP3-Y08B□☆■-02



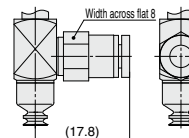
KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

ZP3-Y04B□☆■-U4  
ZP3-Y06B□☆■-U4  
ZP3-Y08B□☆■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

ZP3-Y04B□☆■-04  
ZP3-Y06B□☆■-04  
ZP3-Y08B□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

\*1 Refer to "ZP3-Y▲▲B□☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲B□☆■-B5".

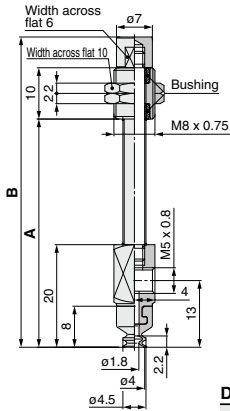
Pad diameter  $\phi 4$  to  $\phi 8$

Pad type **Bellows**

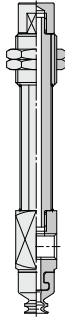
Stroke **15, 20 mm**

**Dimensions/With Buffer: Vacuum Inlet Lateral**

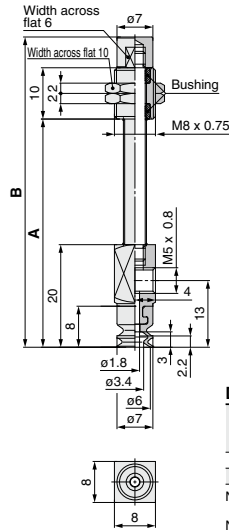
ZP3-Y04B□JB■-B5



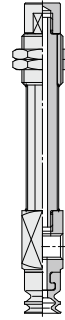
ZP3-Y04B□K■-B5



ZP3-Y06B□JB■-B5



ZP3-Y06B□K■-B5



**Dimensions (per stroke)**

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y04B□☆15-B5	44.5	61	14.3	15.5
ZP3-Y04B□☆20-B5	52	68.5	15.1	16.6

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

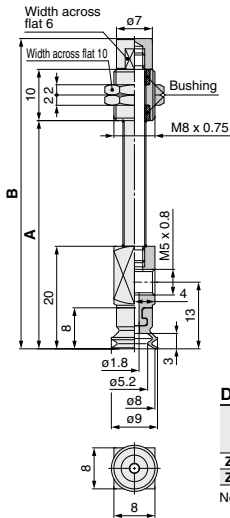
**Dimensions (per stroke)**

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y06B□☆15-B5	44.5	61	14.3	15.5
ZP3-Y06B□☆20-B5	52	68.5	15.1	16.6

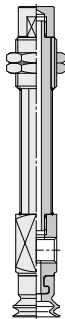
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-Y08B□JB■-B5



ZP3-Y08B□K■-B5



**Dimensions (per stroke)**

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y08B□☆15-B5	44.5	61	14.4	15.6
ZP3-Y08B□☆20-B5	52	68.5	15.2	16.7

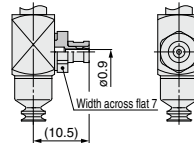
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "JB" or "K".

**Vacuum Inlet Dimensions**

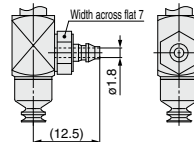
**Barb fitting**

- ZP3-Y04B□☆■-U2
- ZP3-Y06B□☆■-U2
- ZP3-Y08B□☆■-U2



M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

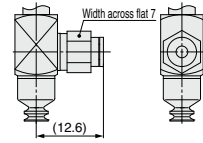
- ZP3-Y04B□☆■-U4
- ZP3-Y06B□☆■-U4
- ZP3-Y08B□☆■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

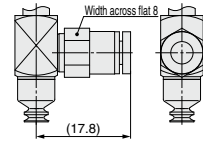
**One-touch fitting**

- ZP3-Y04B□☆■-02
- ZP3-Y06B□☆■-02
- ZP3-Y08B□☆■-02



KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

- ZP3-Y04B□☆■-04
- ZP3-Y06B□☆■-04
- ZP3-Y08B□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

\*1 Refer to "ZP3-Y▲▲B□☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲B□☆■-B5".

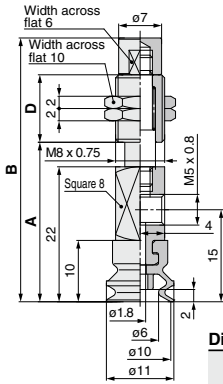
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type Bellows

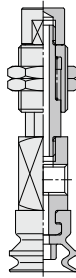
Stroke 3, 6, 10 mm

## Dimensions/With Buffer: Vacuum Inlet **Lateral**

ZP3-Y10B□J■-B5



ZP3-Y10B□K■-B5



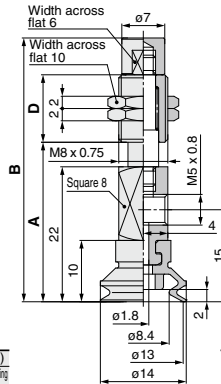
Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y10B□3-B5	26.5	44	11	13.8	13.2
ZP3-Y10B□6-B5	29	50	14.5	15.1	14.2
ZP3-Y10B□10-B5	33	60	20.5	17.5	16.3

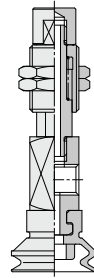
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

ZP3-Y13B□J■-B5



ZP3-Y13B□K■-B5



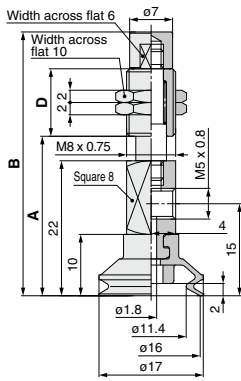
Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y13B□3-B5	26.5	44	11	14.0	13.4
ZP3-Y13B□6-B5	29	50	14.5	15.3	14.4
ZP3-Y13B□10-B5	33	60	20.5	17.7	16.5

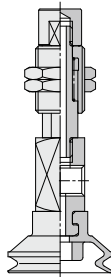
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

ZP3-Y16B□J■-B5



ZP3-Y16B□K■-B5



Dimensions (per stroke)

Model	A	B	D	Weight (g)	
				Rotating (J)	Non-rotating (K)
ZP3-Y16B□3-B5	26.5	44	11	14.1	13.5
ZP3-Y16B□6-B5	29	50	14.5	15.4	14.5
ZP3-Y16B□10-B5	33	60	20.5	17.8	16.6

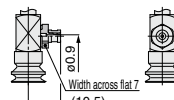
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."

Note 2) The symbol "☆" indicates buffer type "J" or "K".

## Vacuum Inlet Dimensions

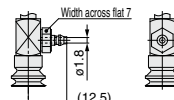
### Barb fitting

ZP3-Y10B□■-U2  
ZP3-Y13B□■-U2  
ZP3-Y16B□■-U2



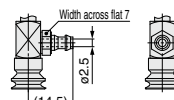
M-5AU-2 [Weight: 1.5 g]<sup>2</sup>

ZP3-Y10B□■-U4  
ZP3-Y13B□■-U4  
ZP3-Y16B□■-U4



M-5AU-4-X83 [Weight: 1.6 g]<sup>2</sup>

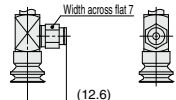
ZP3-Y10B□■-U6  
ZP3-Y13B□■-U6  
ZP3-Y16B□■-U6



M-5AU-6-X83 [Weight: 1.8 g]<sup>2</sup>

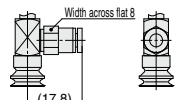
### One-touch fitting

ZP3-Y10B□☆■-02  
ZP3-Y13B□☆■-02  
ZP3-Y16B□☆■-02



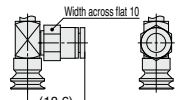
KJH02-M5 [Weight: 1.9 g]<sup>2</sup>

ZP3-Y10B□☆■-04  
ZP3-Y13B□☆■-04  
ZP3-Y16B□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>2</sup>

ZP3-Y10B□☆■-06  
ZP3-Y13B□☆■-06  
ZP3-Y16B□☆■-06



KJH06-M5 [Weight: 3.3 g]<sup>2</sup>

\*1 Refer to "ZP3-Y▲▲B□☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲B□☆■-B5".



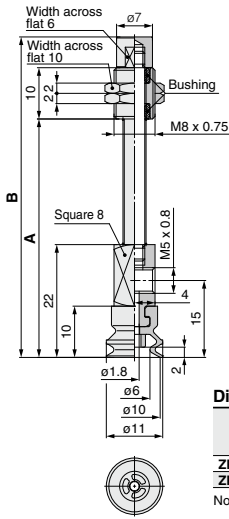
Pad diameter  $\phi 10$  to  $\phi 16$

Pad type **Bellows**

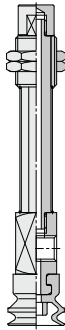
Stroke **15, 20 mm**

Dimensions/With Buffer: Vacuum Inlet **Lateral**

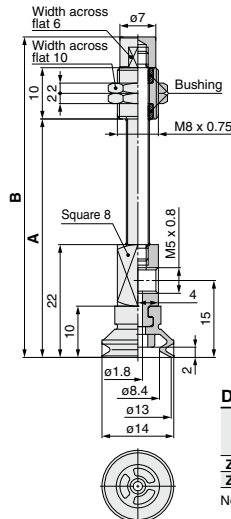
ZP3-Y10B□JB■-B5



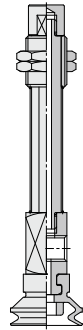
ZP3-Y10B□K■-B5



ZP3-Y13B□JB■-B5



ZP3-Y13B□K■-B5



Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y10B□☆15-B5	46.5	63	15.2	16.4
ZP3-Y10B□☆20-B5	54	70.5	16.0	17.5

Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y13B□☆15-B5	46.5	63	15.4	16.6
ZP3-Y13B□☆20-B5	54	70.5	16.2	17.7

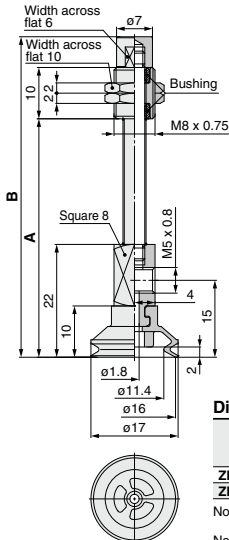
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

Vacuum Inlet Dimensions

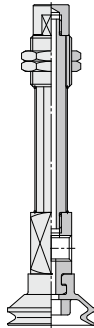
Barb fitting

One-touch fitting

ZP3-Y16B□JB■-B5



ZP3-Y16B□K■-B5

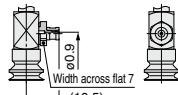


Dimensions (per stroke)

Model	A	B	Weight (g)	
			Rotating (J)	Non-rotating (K)
ZP3-Y16B□☆15-B5	46.5	63	15.5	16.7
ZP3-Y16B□☆20-B5	54	70.5	16.3	17.8

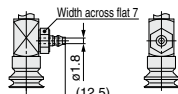
Note 1) □ in the table indicates the pad material "N, S, U, F, GN, GS."  
Note 2) The symbol "☆" indicates buffer type "JB" or "K".

ZP3-Y10B□☆■-U2  
ZP3-Y13B□☆■-U2  
ZP3-Y16B□☆■-U2



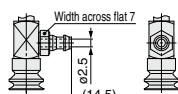
M-5AU-2 [Weight: 1.5 g]<sup>\*2</sup>

ZP3-Y10B□☆■-U4  
ZP3-Y13B□☆■-U4  
ZP3-Y16B□☆■-U4



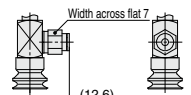
M-5AU-4-X83 [Weight: 1.6 g]<sup>\*2</sup>

ZP3-Y10B□☆■-U6  
ZP3-Y13B□☆■-U6  
ZP3-Y16B□☆■-U6



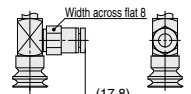
M-5AU-6-X83 [Weight: 1.8 g]<sup>\*2</sup>

ZP3-Y10B□☆■-02  
ZP3-Y13B□☆■-02  
ZP3-Y16B□☆■-02



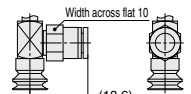
KJH02-M5 [Weight: 1.9 g]<sup>\*2</sup>

ZP3-Y10B□☆■-04  
ZP3-Y13B□☆■-04  
ZP3-Y16B□☆■-04



KJH04-M5 [Weight: 2.4 g]<sup>\*2</sup>

ZP3-Y10B□☆■-06  
ZP3-Y13B□☆■-06  
ZP3-Y16B□☆■-06



KJH06-M5 [Weight: 3.3 g]<sup>\*2</sup>

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

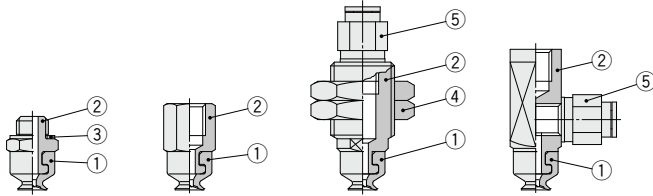
\*1 Refer to "ZP3-Y▲▲B□☆■-B5" for dimensions.

\*2 When calculating the weight, add the weight of the fitting to "ZP3-Y▲▲B□☆■-B5".

# Series ZP3 Construction

## Component Parts List

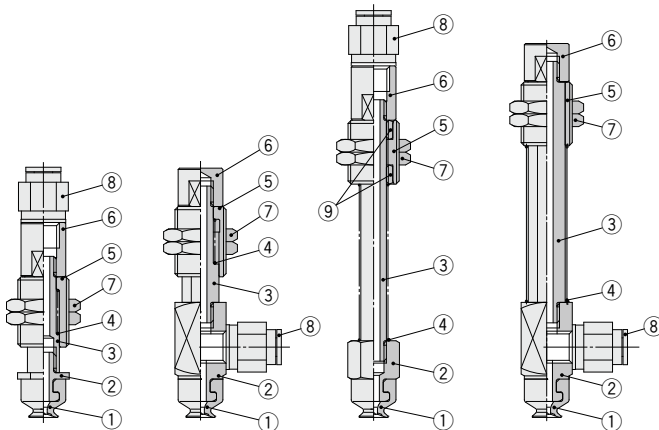
### Pad with adapter



### Component Parts

No.	Description	Material (Surface treatment)	Note
1	Pad	NBR/Silicone rubber Urethane rubber/FKM Conductive NBR/Conductive silicone rubber	
2	Adapter	Brass(Electroless nickel plated)	
3	Gasket	Stainless steel 304/NBR	
4	Nut	Structural steel(Trivalent chromated)	M6 x 0.75 M8 x 0.75 M12 x 1
		Brass(Nickel plated)	M10 x 1
5	Fitting	—	

### Pad with buffer










### Component Parts

No.	Description	Material (Surface treatment)	Note
1	Pad	NBR/Silicone rubber Urethane rubber/FKM Conductive NBR/Conductive silicone rubber	
2	Adapter	Brass(Electroless nickel plated)	
3	Piston rod	Stainless steel	
4	Return spring	Stainless steel	
5	Buffer body	Brass(Electroless nickel plated)	
6	Buffer adapter	Brass(Electroless nickel plated)	
7	Nut	Structural steel(Trivalent chromated)	
8	Fitting	—	
9	Bushing	—	

# Series ZP3

# Adapter Applicable Pad List

## Series ZP3 Mounting Adapter Part No.

Adapter part no.		Applicable pad part no.	Page
		Series ZP3	
ZP3A-T1-A3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1168
ZP3A-T1-B3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1168
ZP3A-T1-A6-B3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1168
ZP3A-T2-A5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168
ZP3A-T2-B5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168
ZP3A-T2-A10-B5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168
ZP3A-T2-A10-04		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1168
ZP3A-T3-A5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1168
ZP3A-T3-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169

Adapter part no.		Applicable pad part no.	Page
		Series ZP3	
ZP3A-T3-A12-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169
ZP3A-T3-A12-04		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169
ZP3A-T3-A12-06		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169
ZP3A-Y1-B3		ZP3-015U□ ZP3-02U□ ZP3-035U□	P.1169
ZP3A-Y2-B5		ZP3-04UM□ ZP3-06UM□ ZP3-08UM□ ZP3-04B□ ZP3-06B□ ZP3-08B□	P.1169
ZP3A-Y3-B5		ZP3-10UM□ ZP3-13UM□ ZP3-16UM□ ZP3-10B□ ZP3-13B□ ZP3-16B□	P.1169

ZP3

ZP2

ZP2V

ZP

ZPT

ZPR

XT661

# Buffer Applicable Pad List

## Buffer Assembly Part No.

Buffer assembly part no.	Applicable pad part no. Series ZP3	Page
ZP3B-T1J3-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1170
ZP3B-T1J6-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1170
ZP3B-T1K3-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1170
ZP3B-T1K6-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1170
ZP3B-T2AJ3-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AJ6-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AJ10-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170

Buffer assembly part no.	Applicable pad part no. Series ZP3	Page
ZP3B-T2AK3-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK6-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK10-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AJB15-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AJB20-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK15-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170
ZP3B-T2AK20-B5	ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1170

**Buffer Assembly Part No.**

Buffer assembly part no.	Applicable pad part no. Series ZP3	Page
ZP3B-T2BJ3-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJ6-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJ10-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK3-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK6-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK10-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJB15-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BJB20-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171

Buffer assembly part no.	Applicable pad part no. Series ZP3	Page
ZP3B-T2BK15-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-T2BK20-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1171
ZP3B-Y1J3-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172
ZP3B-Y1J6-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172
ZP3B-Y1K3-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172
ZP3B-Y1K6-B3	ZP3-015U <input type="checkbox"/> ZP3-02U <input type="checkbox"/> ZP3-035U <input type="checkbox"/>	P.1172

**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**



**ZPR**

**XT661**

# Series ZP3

## Buffer Assembly Part No.

Buffer assembly part no.	Applicable pad part no.	Page	
			Series ZP3
ZP3B-Y2AJ3-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AJ6-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AJ10-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK3-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK6-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK10-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172

Buffer assembly part no.	Applicable pad part no.	Page	
			Series ZP3
ZP3B-Y2AJB15-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AJB20-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK15-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
ZP3B-Y2AK20-B5		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172
		ZP3-04UM <input type="checkbox"/> ZP3-06UM <input type="checkbox"/> ZP3-08UM <input type="checkbox"/> ZP3-04B <input type="checkbox"/> ZP3-06B <input type="checkbox"/> ZP3-08B <input type="checkbox"/>	P.1172

**Buffer Assembly Part No.**

Buffer assembly part no.	Applicable pad part no. Series ZP3	Page
ZP3B-Y2BJ3-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BJ6-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BJ10-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK3-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK6-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK10-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173



Buffer assembly part no.	Applicable pad part no. Series ZP3	Page
ZP3B-Y2BJB15-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BJB20-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK15-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173
ZP3B-Y2BK20-B5	ZP3-10UM <input type="checkbox"/> ZP3-13UM <input type="checkbox"/> ZP3-16UM <input type="checkbox"/> ZP3-10B <input type="checkbox"/> ZP3-13B <input type="checkbox"/> ZP3-16B <input type="checkbox"/>	P.1173



- ZP3**
- ZP2**
- ZP2V**
- ZP**
- ZPT**
- ZPR**
- XT661**

# Mounting Adapter Part No.

Vacuum Inlet Direction **Vertical**

Adapter part no.	<b>ZP3A-T1-A3</b> [Weight: 0.5 g]
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Applicable pad part no.
<b>ZP3-015U</b>
<b>ZP3-02U</b>
<b>ZP3-035U</b>

Adapter part no.	<b>ZP3A-T2-B5</b> [Weight: 2.0 g]
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Applicable pad part no.
<b>ZP3-04UM</b>
<b>ZP3-06UM</b>
<b>ZP3-08UM</b>
<b>ZP3-04B</b>
<b>ZP3-06B</b>
<b>ZP3-08B</b>

Adapter part no.	<b>ZP3A-T1-B3</b> [Weight: 0.8 g]
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Applicable pad part no.
<b>ZP3-015U</b>
<b>ZP3-02U</b>
<b>ZP3-035U</b>

Adapter part no.	<b>ZP3A-T2-A10-B5</b> [Weight: 10.7 g]
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Applicable pad part no.
<b>ZP3-04UM</b>
<b>ZP3-06UM</b>
<b>ZP3-08UM</b>
<b>ZP3-04B</b>
<b>ZP3-06B</b>
<b>ZP3-08B</b>

Adapter part no.	<b>ZP3A-T1-A6-B3</b> [Weight: 2.7 g]
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Applicable pad part no.
<b>ZP3-015U</b>
<b>ZP3-02U</b>
<b>ZP3-035U</b>

Adapter part no.	<b>ZP3A-T2-A10-04</b> [Weight: 9.9 g]
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Applicable pad part no.
<b>ZP3-04UM</b>
<b>ZP3-06UM</b>
<b>ZP3-08UM</b>
<b>ZP3-04B</b>
<b>ZP3-06B</b>
<b>ZP3-08B</b>

Adapter part no.	<b>ZP3A-T2-A5</b> [Weight: 1.4 g]
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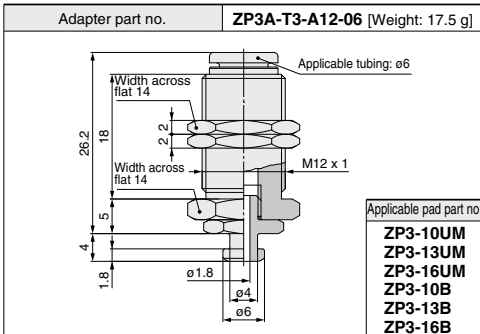
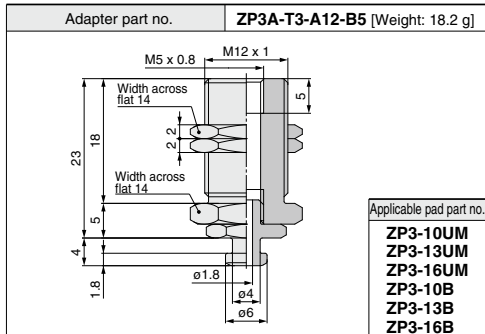
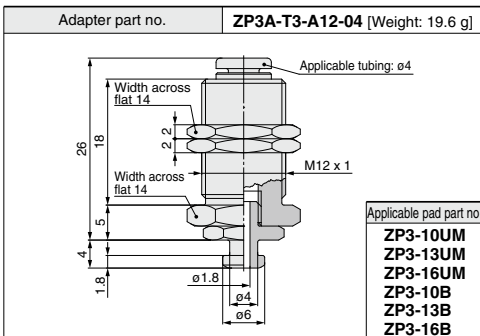
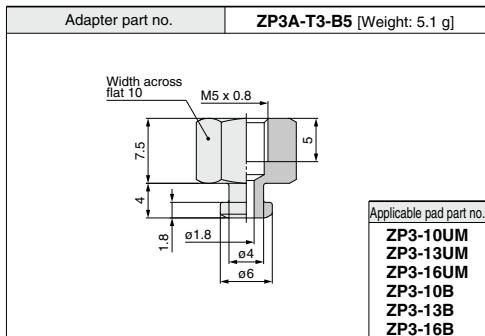
Applicable pad part no.
<b>ZP3-04UM</b>
<b>ZP3-06UM</b>
<b>ZP3-08UM</b>
<b>ZP3-04B</b>
<b>ZP3-06B</b>
<b>ZP3-08B</b>

Adapter part no.	<b>ZP3A-T3-A5</b> [Weight: 2.4 g]
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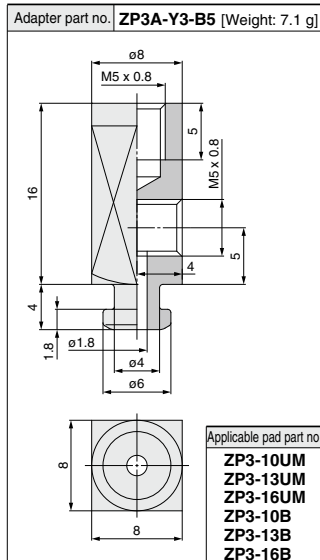
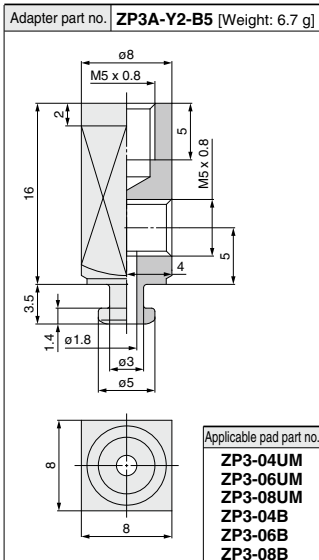
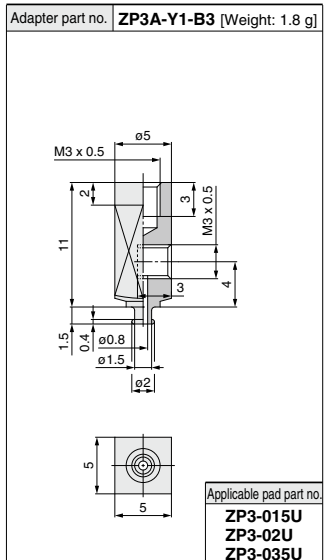
Applicable pad part no.
<b>ZP3-10UM</b>
<b>ZP3-13UM</b>
<b>ZP3-16UM</b>
<b>ZP3-10B</b>
<b>ZP3-13B</b>
<b>ZP3-16B</b>



## Vacuum Inlet Direction **Vertical**



## Vacuum Inlet Direction **Lateral**



**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**

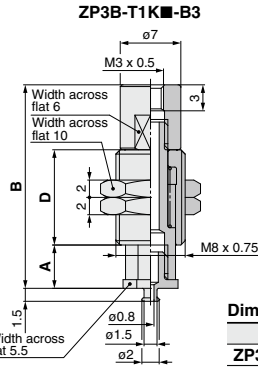
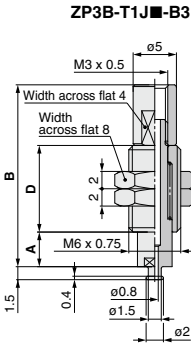
**ZPR**

**XT661**

# Buffer Assembly Part No.

Vacuum Inlet Direction **Vertical**

Buffer assembly part no.	Weight(g)
ZP3B-T1J3-B3	3.5
ZP3B-T1J6-B3	4.3
ZP3B-T1K3-B3	6.7
ZP3B-T1K6-B3	8.1



Applicable pad part no.
ZP3-015U
ZP3-02U
ZP3-035U

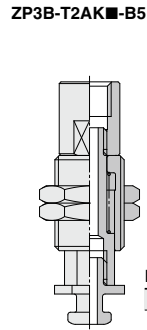
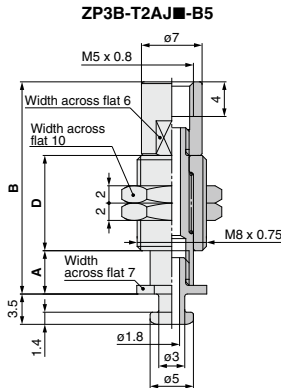
**Dimensions (per stroke)**

Model	A	B	D
ZP3B-T1J3-B3	4	21	10
ZP3B-T1J6-B3	7	28	14

**Dimensions (per stroke)**

Model	A	B	D
ZP3B-T1K3-B3	5	23.5	11
ZP3B-T1K6-B3	8	30	14.5

Buffer assembly part no.	Weight(g)
ZP3B-T2AJ3-B5	7.1
ZP3B-T2AJ6-B5	8.3
ZP3B-T2AJ10-B5	10.2
ZP3B-T2AK3-B5	7.0
ZP3B-T2AK6-B5	8.3
ZP3B-T2AK10-B5	10.2



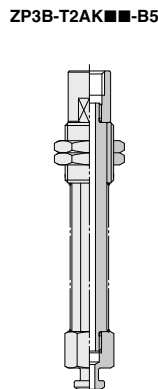
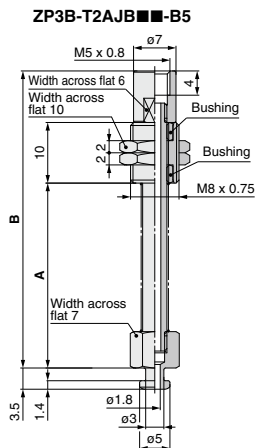
Applicable pad part no.
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

**Dimensions (per stroke)**

Model	A	B	D
ZP3B-T2A☆3-B5	5	24.5	11
ZP3B-T2A☆6-B5	8	31	14.5
ZP3B-T2A☆10-B5	12	41	20.5

Note) The symbol "☆" indicates buffer type "J" or "K".

Buffer assembly part no.	Weight(g)
ZP3B-T2AJB15-B5	10.0
ZP3B-T2AJB20-B5	10.6
ZP3B-T2AK15-B5	12.0
ZP3B-T2AK20-B5	13.1



Applicable pad part no.
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

**Dimensions (per stroke)**

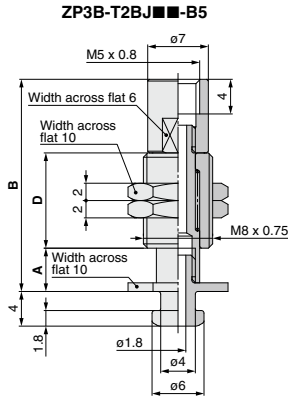
Model	A	B
ZP3B-T2A☆15-B5	30.5	49
ZP3B-T2A☆20-B5	38	56.5

Note) The symbol "☆" indicates buffer type "JB" or "KB".

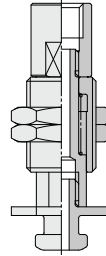
\* Refer to the 897 for nut tightening torque.

## Vacuum Inlet Direction **Vertical**

Buffer assembly part no.	Weight(g)
ZP3B-T2BJ3-B5	7.8
ZP3B-T2BJ6-B5	8.9
ZP3B-T2BJ10-B5	10.9
ZP3B-T2BK3-B5	7.7
ZP3B-T2BK6-B5	8.9
ZP3B-T2BK10-B5	10.9



ZP3B-T2BK series-B5



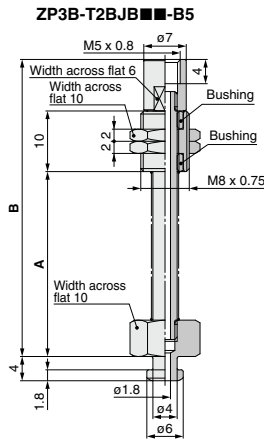
Applicable pad part no.
ZP3-10UM
ZP3-13UM
ZP3-16UM
ZP3-10B
ZP3-13B
ZP3-16B

### Dimensions (per stroke)

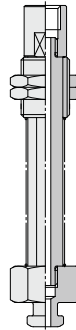
Model	A	B	D
ZP3B-T2B☆3-B5	5	24.5	11
ZP3B-T2B☆6-B5	8	31	14.5
ZP3B-T2B☆10-B5	12	41	20.5

Note) The symbol "☆" indicates buffer type "J" or "K".

Buffer assembly part no.	Weight(g)
ZP3B-T2BJB15-B5	12.5
ZP3B-T2BJB20-B5	15.6
ZP3B-T2BK15-B5	14.5
ZP3B-T2BK20-B5	15.6



ZP3B-T2BK series-B5



Applicable pad part no.
ZP3-10UM
ZP3-13UM
ZP3-16UM
ZP3-10B
ZP3-13B
ZP3-16B

### Dimensions (per stroke)

Model	A	B
ZP3B-T2B☆15-B5	30.5	49
ZP3B-T2B☆20-B5	38	56.5

Note) The symbol "☆" indicates buffer type "JB" or "K".

ZP3

ZP2

ZP2V

ZP

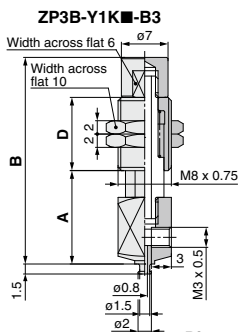
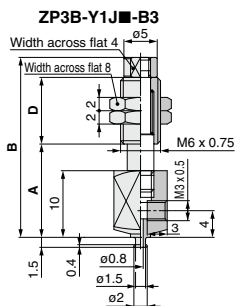
ZPT

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## Vacuum Inlet Direction **Lateral**

Buffer assembly part no.	Weight(g)
ZP3B-Y1J3-B3	7.6
ZP3B-Y1J6-B3	8.5
ZP3B-Y1K3-B3	10.9
ZP3B-Y1K6-B3	12.1



Applicable pad part no.
ZP3-015U
ZP3-02U
ZP3-035U

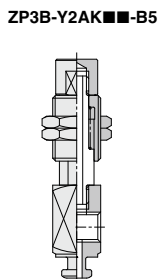
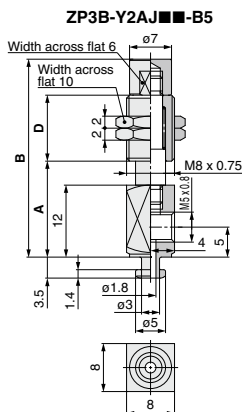
### Dimensions (per stroke)

Model	A	B	D
ZP3B-Y1J3-B3	14	27	10
ZP3B-Y1J6-B3	17	34	14

### Dimensions (per stroke)

Model	A	B	D
ZP3B-Y1K3-B3	14	31	11
ZP3B-Y1K6-B3	17	37.5	14.5

Buffer assembly part no.	Weight(g)
ZP3B-Y2AJ3-B5	12.5
ZP3B-Y2AJ6-B5	13.9
ZP3B-Y2AJ10-B5	16.3
ZP3B-Y2AK3-B5	11.9
ZP3B-Y2AK6-B5	13.1
ZP3B-Y2AK10-B5	15.1



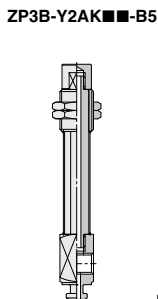
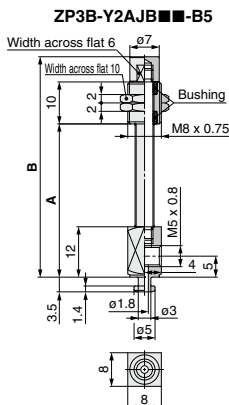
Applicable pad part no.
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

### Dimensions (per stroke)

Model	A	B	D
ZP3B-Y2A☆3-B5	16.5	34	11
ZP3B-Y2A☆6-B5	19	40	14.5
ZP3B-Y2A☆10-B5	23	50	20.5

Note) The symbol "☆" indicates buffer type "J" or "K".

Buffer assembly part no.	Weight(g)
ZP3B-Y2AJB15-B5	14.0
ZP3B-Y2AJB20-B5	14.8
ZP3B-Y2AK15-B5	15.2
ZP3B-Y2AK20-B5	16.3



Applicable pad part no.
ZP3-04UM
ZP3-06UM
ZP3-08UM
ZP3-04B
ZP3-06B
ZP3-08B

### Dimensions (per stroke)

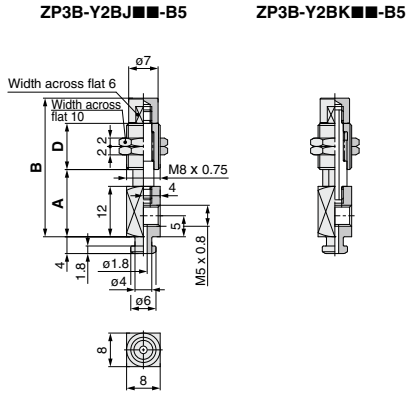
Model	A	B
ZP3B-Y2A☆15-B5	36.5	53
ZP3B-Y2A☆20-B5	44	60.5

Note) The symbol "☆" indicates buffer type "JB" or "KB".

\* Refer to the 897 for nut tightening torque.

## Vacuum Inlet Direction **Lateral**

Buffer assembly part no.	Weight(g)
ZP3B-Y2BJ3-B5	13.0
ZP3B-Y2BJ6-B5	14.3
ZP3B-Y2BJ10-B5	16.7
ZP3B-Y2BK3-B5	12.4
ZP3B-Y2BK6-B5	13.6
ZP3B-Y2BK10-B5	15.5



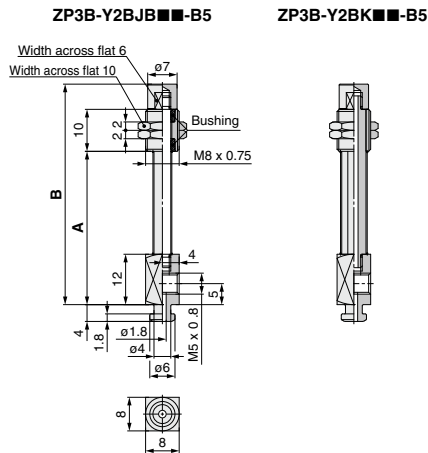
Applicable pad part no.
ZP3-10UM
ZP3-13UM
ZP3-16UM
ZP3-10B
ZP3-13B
ZP3-16B

### Dimensions (per stroke)

Model	A	B	D
ZP3B-Y2B☆3-B5	16.5	34	11
ZP3B-Y2B☆6-B5	19	40	14.5
ZP3B-Y2B☆10-B5	23	50	20.5

(Note) The symbol "☆" indicates buffer type "J" or "K".

Buffer assembly part no.	Weight(g)
ZP3B-Y2BJB15-B5	14.4
ZP3B-Y2BJB20-B5	15.2
ZP3B-Y2BK15-B5	15.6
ZP3B-Y2BK20-B5	16.7



Applicable pad part no.
ZP3-10UM
ZP3-13UM
ZP3-16UM
ZP3-10B
ZP3-13B
ZP3-16B

### Dimensions (per stroke)

Model	A	B
ZP3B-Y2B☆15-B5	36.5	53
ZP3B-Y2B☆20-B5	44	60.5

(Note) The symbol "☆" indicates buffer type "JB" or "K".

**ZP3**

**ZP2**

**ZP2V**

**ZP**

**ZPT**

**ZPR**

**XT661**