

Basic Pad **ZP** Series

With Lock Ring(ø10 ~ ø50)



How to Order



With brass lock ring

ZP

10

U

N

—

X19

With stainless steel 304 lock ring

ZPS

10

U

N

△

Lock ring models/dimensions

ZPΔL 1

Symbol	Pad diameter
1	ø10,ø13,ø16
2	ø20,ø25,ø32
3	ø40,ø50

Part no.	øA	øB
ZPΔL1	13	9
ZPΔL2	15	10
ZPΔL3	18	14

△ Nil/Brass S/Stainless steel

③ Pad type	② Pad diameter (mm)	10	13	16	20	25	32	40	50
U	Flat Type	●	●	●	●	●	●	●	●
C	Flat Type with Ribs	●	●	●	●	●	●	●	●
B	Bellows Type	●	●	●	●	●	●	●	●
D	Deep Type	●	—	●	—	●	—	●	—

⑤ Lock ring	
Nil	With lock ring
X19	Without lock ring

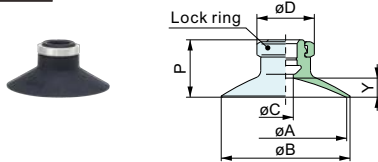
④ Material	
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

Green symbol is customized models.

Dimensions

Green symbol is customized models. (mm)

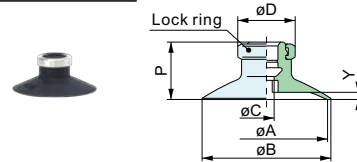
U Flat Type



Model	② Pad dia.	③ Pad type	④ Pad Material	øA	øB	øC	øD	P	Y
ZP	10	U	N	10	12	4	13	12	3
	13		S	13	15			12.5	3.5
	16		S	16	18			14	4
ZPS	20		U	20	23	15	15	14.5	4.5
	25		F	25	28			18.5	6.5
	32		GN	32	35			19.5	7.5
	40		GS	40	43	7	18		
	50			50	53				

Model for refer: ZP10UGN

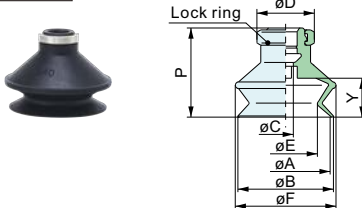
C Flat Type with Ribs



Model	② Pad dia.	③ Pad type	④ Pad Material	øA	øB	øC	øD	P	Y
ZP	10	C	N	10	12	4	13	12	1.7
	13		S	13	15			12.5	1.8
	16		S	16	18			14	1.2
ZPS	20		U	20	23	15	15	14.5	1.7
	25		F	25	28			18.5	2.3
	32		GN	32	35			19.5	3.8
	40		GS	40	43	7	18		
	50			50	53				

Model for refer: ZP13CN

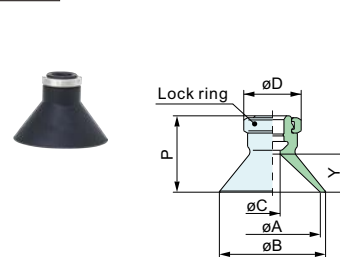
B Bellows Type



Model	② Pad dia.	③ Pad type	④ Pad Material	øA	øB	øC	øD	øE	øF	P	Y
ZP	10	B	N	10	12	4	13	5.5	13.5	16	5.5
	13		S	13	15			8.7	19	18.5	7.5
	16		S	16	18			10	21	20	8.5
ZPS	20		U	20	22	15	15	12.6	25	23.5	10.5
	25		F	25	27			16	28	24	
	32		GN	32	34			18.9	37	29	14
	40		GS	40	43	7	18	24.4	47	34	16
	50			50	53			33.4	57	38	19

Model for refer: ZP32BGS

D Deep Type



Model	② Pad dia.	③ Pad type	④ Pad Material	øA	øB	øC	øD	P	Y
ZP	10	D	N	10	12	4	13	15	6
	16		S	16	18			16	7
	25		F	25	28			20	10
ZPS	40		GN	40	43	7	18	29	17

Model for refer: ZP40DGN

ZP Series

With Lock Ring(ø10 ~ ø50)

With Adapter

How to Order



With brass lock ring
With brass adapter

ZP

With stainless steel 304 lock ring
With stainless steel 304 adapter

ZPS

△

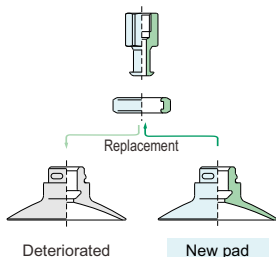
① Vacuum inlet direction	② Pad diameter	③ Pad type	④ Material	⑦ Vacuum inlet	⑧ Connection thread
T	10	U	N	B5	
T	10	U	N	B5	

④ Material	
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

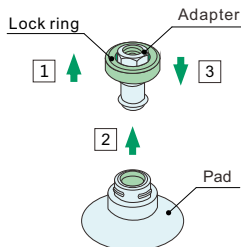
Green symbol is customized models.

How to Replace the Pad

Since pads are essentially rubber, deterioration is unavoidable. The rate of deterioration depends upon factors such as conditions of use, environment and temperature. Regular maintenance should be performed. If any damage, splitting, cracking or abrasion has occurred in a pad which appears to be harmful, replace it immediately. Also, take care not to damage the outside surface of the pad.



1. Pull the lock ring upward, and, after lifting it up to the adapter, remove the old pad by pulling it downward.
2. While holding the lock ring in the raised position, place a new pad onto the adapter.
3. Confirm that the pad is securely in place, and then return the lock ring to its original position.



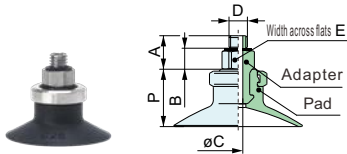
③ Pad type		② Pad diameter (mm)	10	13	16	20	25	32	40	50
			ø10	ø13	ø16	ø20	ø25	ø32	ø40	ø50
U	Flat Type		●	●	●	●	●	●	●	●
C	Flat Type with Ribs		●	●	●	●	●	●	●	●
B	Bellows Type		●	●	●	●	●	●	●	●
D	Deep Type		●	—	●	—	●	—	●	—

① Vacuum inlet direction		⑦ Vacuum inlet	⑧ Connection thread	⑥ Connection thread	⑤ One-touch fitting										
						AS5	AS6	AG1	AG2	A5	A6	A8	B5	B6	B8
T	Vertical	⑦ Vacuum inlet	Male thread			M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						G1/8	—	—	—	—	—	—	—	—	—
						G1/4	—	—	—	—	—	—	—	—	—
						M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
		Female thread				M8 x 1.0	—	—	—	—	—	—	—	—	—
						M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.25	—	—	—	—	—	—	—	—	—
						Rc1/8	—	—	—	—	—	—	—	—	—
						G1/8	—	—	—	—	—	—	—	—	—
R	Lateral	⑦ Vacuum inlet	Male thread			M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.0	—	—	—	—	—	—	—	—	—
						M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.25	—	—	—	—	—	—	—	—	—
		Female thread				M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.0	—	—	—	—	—	—	—	—	—
						M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.25	—	—	—	—	—	—	—	—	—
Y	Lateral	⑦ Vacuum inlet	Barb fitting			For ø4 soft tubing	—	—	—	—	—	—	—	—	—
						For ø4 nylon tubing	—	—	—	—	—	—	—	—	—
						For ø6 soft tubing	—	—	—	—	—	—	—	—	—
						For ø6 nylon tubing	—	—	—	—	—	—	—	—	—
		⑧ Connection thread	Male thread			M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.0	—	—	—	—	—	—	—	—	—
						M5 x 0.8	—	—	—	—	—	—	—	—	—
						M6 x 1.0	—	—	—	—	—	—	—	—	—
						M8 x 1.25	—	—	—	—	—	—	—	—	—

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical U/C



Dimensions Per pad

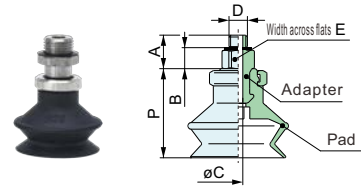
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model						A	B	øC	D	E	Adapter	⑦ Vacuum inlet		
	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet									
ZP ZPS	T	10 13 16	U C	N S U F GN GS	AS5	9	5.5	2.5	M5 x 0.8	8	ZPT2 ZPST2	AS5		
					AS6	10			M6 x 1			AS6		
					AG1	12.5			G1/8			AG1		
		20 25 32			AS5	9	5.5	2.5	M5 x 0.8	8	ZPT3 ZPST3	AS5		
					AS6	10			M6 x 1			AS6		
					AG1	12.5			G1/8			AG1		
		40 50			AS6	11	6.5	2.5	M6 x 1	12	ZPT4 ZPST4	AS6		
					AG1	11.5			G1/8			AG1		
					AG2	16.5			G1/4			AG2		

Model for refer: ZPT10UN-AS5 Adapter for refer: ZPT2-AS5

ZPT Vertical B



Dimensions Per pad

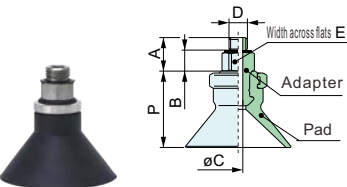
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	A	B	øC	D	E	Adapter	⑦		
												Vacuum inlet		
ZP ZPS	T	10 13 16	B	N S U F GN GS	AS5	9	5.5	2.5	M5 x 0.8	8	ZPT2 ZPST2	AS5		
					AS6	10			M6 x 1			AS6		
					AG1	12.5			G1/8			AG1		
		20 25 32			AS5	9	5.5	2.5	M5 x 0.8	8	ZPT3 ZPST3	AS5		
					AS6	10			M6 x 1			AS6		
					AG1	12.5			G1/8			AG1		
		40 50			AS6	11	6.5	2.5	M6 x 1	12	ZPT4 ZPST4	AS6		
					AG1	11.5			G1/8			AG1		
					AG2	16.5			G1/4			AG2		

Model for refer: ZPT20BGN-AS6 Adapter for refer: ZPT3-AS6

ZPT Vertical D



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

Model	①	②	③	④	⑦	A	B	øC	D	E	Adapter	⑦		
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Vacuum inlet							Vacuum inlet		
ZP ZPS	T	10 16	D	N S U F GN GS	AS5	9	5.5	2.5	M5 x 0.8	8	ZPT2 ZPST2	AS5		
					AS6	10			M6 x 1			AS6		
					AG1	12.5			G1/8			AG1		
		25			AS5	9	5.5	2.5	M5 x 0.8	8	ZPT3 ZPST3	AS5		
					AS6	10			M6 x 1			AS6		
					AG1	12.5			G1/8			AG1		
		40			AS6	11	6.5	2.5	M6 x 1	12	ZPT4 ZPST4	AS6		
					AG1	11.5			G1/8			AG1		
					AG2	16.5			G1/4			AG2		

Model for refer: ZPT40DS-AG1 Adapter for refer: ZPT4-AG1

ZP Series

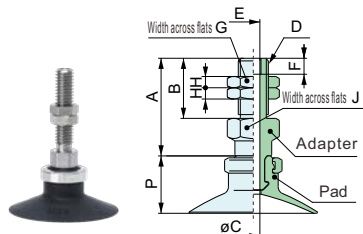
With Lock Ring(ø10 ~ ø50)

With Adapter **Vertical**

Dimensions

Green symbol is customized models. (mm)

ZPT **Vertical** U/C



Dimensions Per pad

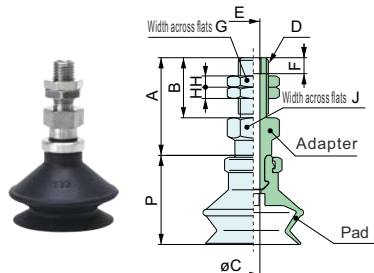
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model		① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	A	B	øC	D	E	F	G	H	J	Adapter	⑦ Vacuum inlet									
ZP ZPS	T	10	13	U	N	S	A5	26	21	2.5	M5x0.8	M3x0.5	3.5	7	4	8	ZPT2	A5								
		16					A6	31	26		M6x1			8	3		ZPST2	A6								
		20					32	U	F	GN	GS	A6	31	26	2.5	M6x1	M3x0.5	3.5	8	3	8	ZPT3	A6			
		25										A8	22	16	4	M8x1	M5x0.8	5	12			12	ZPST3	A8		
		32										A6	32	26	2.5	M6x1	M3x0.5	3.5	12	3	12	ZPT4	A6			
		40										A8	26	16	4.2	M8x1	M5x0.8	5				ZPST4	A8			
		50																								

Model for refer: ZPT50CN-A8 Adapter for refer: ZPT4-A8

ZPT **Vertical** B



Dimensions Per pad

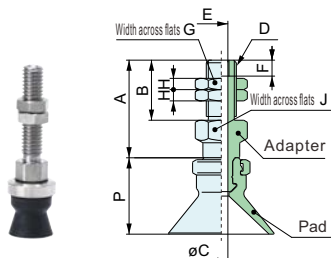
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	①	②	③	④	⑦												Adapter	⑦
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Vacuum inlet	A	B	øC	D	E	F	G	H	J	Vacuum inlet			
ZP ZPS	T	10	B	N	A5	26	21	2.5	M5x0.8	M3x0.5	3.5	7	4	8	ZPT2	A5		
		13			A6	31	26		M6x1			8	3		ZPST2	A6		
		16			A6	31	26	2.5	M6x1	M3x0.5	3.5	8	3	8	ZPT3	A6		
		20			A8	22	16	4	M8x1	M5x0.8	5	12			12	ZPST3	A8	
		25			A6	32	26	2.5	M6x1	M3x0.5	3.5	12	3	12	ZPT4	A6		
		32			A8	26	16	4.2	M8x1	M5x0.8	5				ZPST4	A8		
		40																
		50																

Model for refer: ZPT32BS-A6 Adapter for refer: ZPT3-A6

ZPT **Vertical** D



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

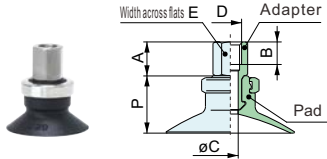
Model		① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	A	B	øC	D	E	F	G	H	J	Adapter	⑦ Vacuum inlet
ZP ZPS	T	10 16 25 40	D	N S U F GN GS	A5	26	21	2.5	M5x0.8	M3x0.5	3.5	7	4	8	ZPT2	A5	
					A6	31	26		M6x1						8	3	ZPST2
					A6	31	26	2.5	M6x1	M3x0.5	3.5	8	3	8	ZPT3	A6	
					A8	22	16	4	M8x1	M5x0.8	5	12			12	ZPST3	A8
					A6	32	26	2.5	M6x1	M3x0.5	3.5	12	3	12	ZPT4	A6	
					A8	26	16	4.2	M8x1	M5x0.8	5				ZPST4	A8	

Model for refer: ZPT10DN-A5 Adapter for refer: ZPT2-A5

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical U/C



Dimensions Per pad

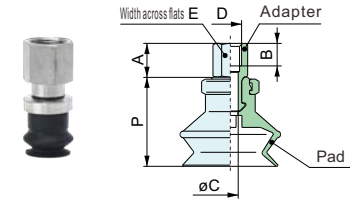
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	A	B	øC	D	E	Adapter	⑦	
												Vacuum inlet	
ZP ZPS	T	10 13 16	U C	N S U F GN GS	B5	9	5	2.5	M5 x 0.8	8	ZPT2 ZPST2	B5	
					B6		6		M6 x 1			B6	
					B01	11	7		Rc1/8	12		B01	
					BG01		7.4		G1/8	13		BG01	
		20 25 32			B5	9	5	3.5	M5 x 0.8	8	ZPT3 ZPST3	B5	
					B6		6		M6 x 1			B6	
					B8	15	8		M8 x 1.25	12		B8	
					B01		7		Rc1/8			B01	
		40 50			BG01	13.5	7.4		G1/8	13		BG01	
					B6		6	4.5	M6 x 1	12	ZPT4 ZPST4	B6	
					B8		8	6.8	M8 x 1.25			B8	
					B01		7		Rc1/8			B01	
					BG01		7.4		G1/8			13	BG01
					BG2		11		6			G1/4	17

Model for refer: ZPT10UGN-B5 Adapter for refer:ZPT2-B5

ZPT Vertical B



Dimensions Per pad

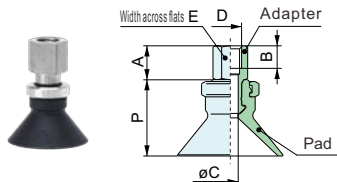
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	A	B	øC	D	E	Adapter	⑦ Vacuum inlet
ZP ZPS	T	10 13 16	B	N S U F GN GS	B5	9	5	2.5	M5 x 0.8	8	ZPT2 ZPST2	B5
					B6		6		M6 x 1			B6
					B01	11	7		Rc1/8	12		B01
					BG01		7.4		G1/8	13		BG01
		20 25 32			B5	9	5	3.5	M5 x 0.8	8	ZPT3 ZPST3	B5
					B6		6		M6 x 1			B6
					B8	15	8		M8 x 1.25	12		B8
					B01		7		Rc1/8			B01
		40 50			BG01	13.5	7.4		G1/8	13		BG01
					B6		6	4.5	M6 x 1	12	ZPT4 ZPST4	B6
					B8	8	M8 x 1.25		B8			
					B01	7	Rc1/8		B01			
					BG01	7.4	G1/8		13			BG01
					BG2	11	G1/4		17			BG2

Model for refer: ZPT20BGS-B01 Adapter for refer:ZPT3-B01

ZPT Vertical D



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	A	B	øC	D	E	Adapter	⑦ Vacuum inlet			
ZP ZPS	T	10 16	D	N S U F GN GS	B5	9	5	2.5	M5 x 0.8	8	ZPT2 ZPST2	B5			
					B6		6		M6 x 1			B6			
					B01		7		Rc1/8			B01			
					BG01	7.4	G1/8		BG01						
		25			B5	9	5	3.5	M5 x 0.8	8	ZPT3 ZPST3	B5			
					B6		6		M6 x 1			B6			
					B8		8		M8 x 1.25			12	B8		
					B01	7	Rc1/8		B01						
		40			BG01	15	7.4		4.2	G1/8		13	BG01		
					B6		13.5	6		4.5	M6 x 1	12	ZPT4 ZPST4	B6	
					B8	8		6.8		M8 x 1.25	B8				
					B01	7				Rc1/8	B01				
					BG01	7.4				G1/8	13			BG01	
					BG2	11			6	G1/4	17			BG2	

Model for refer: ZPT25CS-B5 Adapter for refer:ZPT3-B5

ZP Series

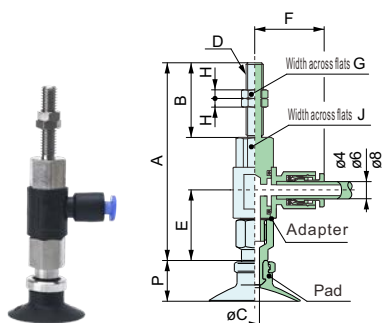
With Lock Ring(ø10 ~ ø50)

With Adapter **Lateral**

Dimensions

Green symbol is customized models. (mm)

ZPR Lateral U/C



Dimensions Per pad

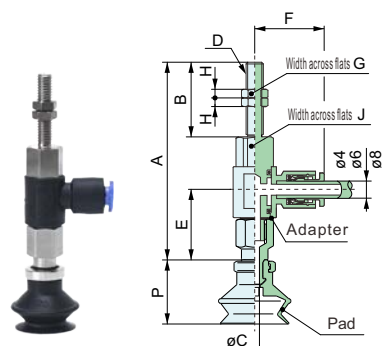
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	H	J	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	R	10 13 16	U C	N S U F GN GS	04 06	A5 A6	55 60	21 26	2.5	M5x0.8 M6x1	17.9	04: 20.6 06: 21.6	7 8	4	8	ZPR2	04 06	A5 A6
		20 25 32			04 06 08	A6 A8	69.5 59.5	25.9 15.9		4		M6x1 M8x1	25.8 24.3				04: 23.3 06: 24.3 08: 26.2	8 12
		40 50			06 08	A6 A8	68 58	25.9 15.9	4		M6x1 M8x1	25.8 24.3	06: 24.3 08: 26.2	8 12	3	12	ZPR4	06 08

Model for refer: ZPR10UGS-06-A5 Adapter for refer: ZPR2-06-A5

ZPR Lateral B



Dimensions Per pad

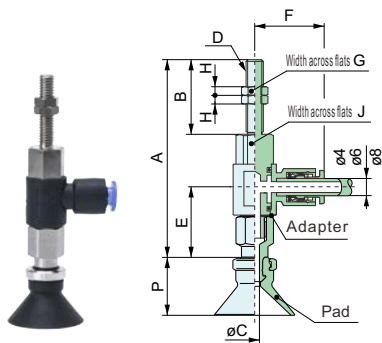
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	H	J	Adapter	⑦ Vacuum inlet	⑧ Connection thread				
ZP	R	10	B	N	S	04	A5	55	21	2.5	M5x0.8	17.9	04: 20.6	7	4	8	ZPR2	04	A5			
		13				06	A6	60	26		M6x1		06: 21.6	8				06	A6			
		20				U	04	A6	69.5	25.9	4	M6x1	25.8	04: 23.3	8	3	12	ZPR3	04	A6		
		25					06	A8	59.5	15.9		M8x1	24.3	06: 24.3	12				06	A8		
		32					GN	GS	06	A6	68	25.9	4	M6x1	25.8	06: 24.3	8	3	12	ZPR4	06	A6
		40								A8	58	15.9		M8x1	08: 26.2	12	08				A8	
		50																				

Model for refer: ZPR13BS-04-A6 Adapter for refer: ZPR2-04-A6

ZPR Lateral D



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

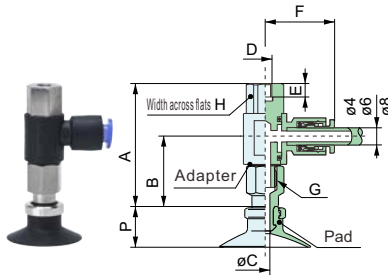
Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	H	J	Adapter	⑦ Vacuum inlet	⑧ Connection thread			
ZP	R	10	D	N S U F GN GS	04	A5	55	21	2.5	M5x0.8	17.9	04: 20.6	7	4	8	ZPR2	04	A5			
		16			06	A6	60	26		M6x1		06: 21.6	8				06	A6			
		25			04	A6	69.5	25.9	4	M6x1	25.8	04: 23.3	8	3	12	ZPR3	04	A6			
					06	A8	59.5	15.9		M8x1	24.3	06: 24.3	12				06: 24.3	12	06	A8	
		40			08	A6	68	25.9	4	M6x1	25.8	06: 24.3	8	3	12	ZPR4	06	A6			
					08	A8	58	15.9		M8x1	24.3	08: 26.2	12				08	A8			

Model for refer: ZPR10DS-04-A5 Adapter for refer: ZPR2-04-A5

Dimensions

Green symbol is customized models. (mm)

ZPR Lateral U/C



Dimensions Per pad

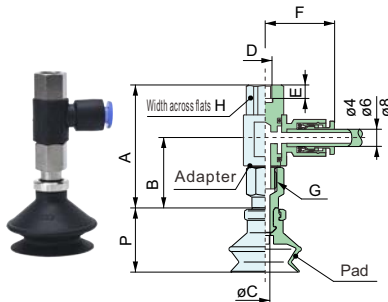
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	H	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	R	10	U	N	04	B5	34	17.9	2.5	M5x0.8	5	04: 20.6 06: 21.6	M5x0.8	8	ZPR2	04 06	B5
		13				B6				M6x1	6						B6
		20				B5	43.6	25.8	4	M5x0.8	5	04: 23.3 06: 24.3 08: 26.2	M8x1.25	12	ZPR3	04 06 08	B5
		25				B6				M6x1	6						B6
		32				B8				M8x1.25	8						B8
		40				B6	42.1	24.3	4	M6x1	6	06: 24.3 08: 26.2	M8x1.25	12	ZPR4	06 08	B6
		50				B8				M8x1.25	8						B8

Model for refer: ZPR40UGN-08-B8 Adapter for refer: ZPR4-08-B8

ZPR Lateral B



Dimensions Per pad

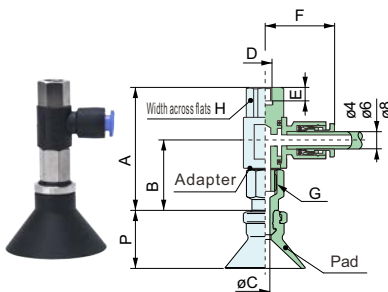
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	H	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	R	10	B	N	04	B5	34	17.9	2.5	M5x0.8	5	04: 20.6 06: 21.6	M5x0.8	8	ZPR2	04 06	B5
		13				B6				M6x1	6						B6
		20				B5	43.6	25.8	4	M5x0.8	5	04: 23.3 06: 24.3 08: 26.2	M8x1.25	12	ZPR3	04 06 08	B5
		25				B6				M6x1	6						B6
		32				B8				M8x1.25	8						B8
		40				B6	42.1	24.3	4	M6x1	6	06: 24.3 08: 26.2	M8x1.25	12	ZPR4	06 08	B6
		50				B8				M8x1.25	8						B8

Model for refer: ZPR20BS-06-B8 Adapter for refer: ZPR3-06-B8

ZPR Lateral D



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	H	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	R	10	D	N	04	B5	34	17.9	2.5	M5x0.8	5	04: 20.6 06: 21.6	M5x0.8	8	ZPR2	04 06	B5
		16				B6				M6x1	6						B6
		25				B5	43.6	25.8	4	M5x0.8	5	04: 23.3 06: 24.3 08: 26.2	M8x1.25	12	ZPR3	04 06 08	B5
						B6				M6x1	6						B6
						B8				M8x1.25	8						B8
		40				B6	42.1	24.3	4	M6x1	6	06: 24.3 08: 26.2	M8x1.25	12	ZPR4	06 08	B6
						B8				M8x1.25	8						B8

Model for refer: ZPR16DN-06-B5 Adapter for refer: ZPR2-06-B5

ZP Series

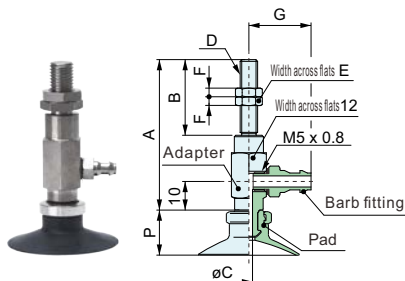
With Lock Ring(ø10 ~ ø50)

With Adapter **Lateral**

Dimensions

Green symbol is customized models. (mm)

ZPY **Lateral** U/C



Dimensions Per pad

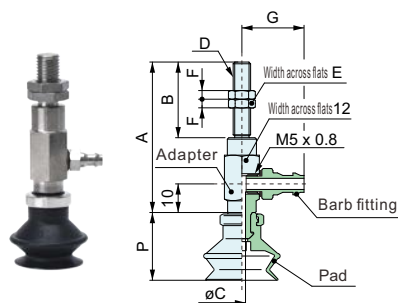
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model	①	②	③	④	⑦	⑧	A	B	øC	D	E	F	G	Adapter	⑦	⑧	
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Vacuum inlet	Connection thread									Vacuum inlet	Connection thread	
ZP	Y	10	U	N	B5	A5	47	21	2.5	M5x0.8	7	4	N4,U4: 14.5 N6,U6: 16.5	ZPY2	B5	A5	
		13				A6	52	26		M6x1	8					A6	
		16			A6	54	26	3.5	M6x1	8	3	N4,U4: 14.5 N6,U6: 16.5	ZPY3	N6	A6		
		20			U6	A8	44		16	M8x1					12	A8	
		25		GN	B5	A6	54	26	6	M6x1	8	3	N6,U6: 16.5	ZPY4	B5	A6	
		32				U6	A8	44		16	M8x1					12	A8
		40			GS	N6	A8	44	16	6	M8x1	12	3	N6,U6: 16.5	ZPY4	N6	A8
		50															

Model for refer: ZPY10UN-U6-A5 Adapter for refer: ZPY2-U6-A5

ZPY **Lateral** B



Dimensions Per pad

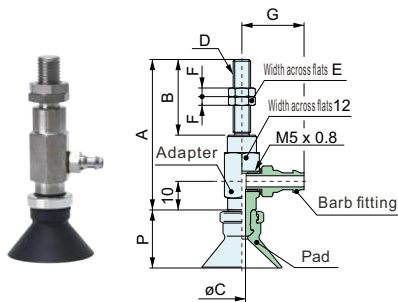
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	Adapter	⑦ Vacuum inlet	⑧ Connection thread		
ZP	Y	10	B	N S U F GN GS	B5	A5	47	21	2.5	M5x0.8	7	4	N4,U4: 14.5 N6,U6: 16.5	ZPY2	B5 N4 U4	A5 A6		
		N4			A6	52	26	M6x1		8								
		13			A6	54	26	3.5	M6x1	8	3	N4,U4: 14.5 N6,U6: 16.5	ZPY3	N6 U6	A6 A8			
		16			A8	44	16		M8x1	12								
		20			B5	A6	54	26	6	M6x1	8	3	N6,U6: 16.5	ZPY4	B5 N6 U6	A6 A8		
		25			N4	A8	44	16		M8x1	12							
		32			N6													
		40																
50																		

Model for refer: ZPY16BGN-U4-A5 Adapter for refer: ZPY2-U4-A5

ZPY **Lateral** D



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	F	G	Adapter	⑦ Vacuum inlet	⑧ Connection thread	
ZP	Y	10	D	N S U F GN GS	B5	A5	47	21	2.5	M5x0.8	7	4	N4,U4: 14.5 N6,U6: 16.5	ZPY2	B5 N4 U4	A5 A6	
		N4			A6	52	26	M6x1		8							
		25			U6	A6	54	26	3.5	M6x1	8	3	N4,U4: 14.5 N6,U6: 16.5	ZPY3	N6 U6	A6 A8	
		N6			A8	44	16	M8x1		12							
		40			B5	A6	54	26	6	M6x1	8	3	N6,U6: 16.5	ZPY4	B5 N6 U6	A6 A8	
					N6	A8	44	16		M8x1	12						
		25			40	N6	A8	44	16	6	M8x1	12	3	N6,U6: 16.5	ZPY4	B5 N6 U6	A6 A8
25	40	N6	A8	44	16	6	M8x1	12	3	N6,U6: 16.5	ZPY4	B5 N6 U6	A6 A8				

Model for refer: ZPY10DS-B5-A6 Adapter for refer: ZPY2-B5-A6

Dimensions

Green symbol is customized models. (mm)

ZPY Lateral U/C

Dimensions Per pad

② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	Y	10	U	N S U F GN GS	B5 N4 U4 N6 U6	B5 B6	26	N4,U4: 14.5 N6,U6: 16.5	2.5	M5x0.8	5	ZPY2	B5 N4 U4 N6 U6	B5 B6
		13									6			
		16					28	N4,U4: 14.5 N6,U6: 16.5	3.5	M5x0.8	5	ZPY3	B5 N4 U4 N6 U6	B5 B6
		20									6			
		25									8			
		32									8			
		40				B5 N6 U6	28	N6,U6: 16.5	6	M6x1	6	ZPY4	B5 N6 U6	B6 B8
		50									8			

Model for refer: ZPY10UGN-U4-B5 Adapter for refer:ZPY2-U4-B5

ZPY Lateral B

Dimensions Per pad

② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	Y	10	B	N S U F GN GS	B5 N4 U4 N6 U6	B5 B6	26	N4,U4: 14.5 N6,U6: 16.5	2.5	M5x0.8	5	ZPY2	B5 N4 U4 N6 U6	B5 B6
		13									6			
		16					28	N4,U4: 14.5 N6,U6: 16.5	3.5	M5x0.8	5	ZPY3	B5 N4 U4 N6 U6	B5 B6
		20									6			
		25									8			
		32									8			
		40			B5 N6 U6	B5 B6	28	N6,U6: 16.5	6	M6x1	6	ZPY4	B5 N6 U6	B6 B8
		50									8			

Model for refer: ZPY10BS-U6-B5 Adapter for refer:ZPY2-U6-B5

ZPY Lateral D

Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet	⑧ Connection thread	A	B	øC	D	E	Adapter	⑦ Vacuum inlet	⑧ Connection thread
ZP	Y	10	D	N S U F GN GS	B5 N4 U4 N6 U6	B5 B6	26	N4,U4: 14.5 N6,U6: 16.5	2.5	M5x0.8	5	ZPY2	B5 N4 U4 N6 U6	B5 B6
		16									6			
		25					28	N4,U4: 14.5 N6,U6: 16.5	3.5	M5x0.8	5	ZPY3	B5 N4 U4 N6 U6	B5 B6
		25									6			
		25									8			
		40									8			
		40			B5 N6 U6	B5 B6	28	N6,U6: 16.5	6	M6x1	6	ZPY4	B5 N6 U6	B6 B8
		40									8			

Model for refer: ZPY10DN-U4-B6 Adapter for refer:ZPY2-U4-B6

ZP Series

With Lock Ring(ø10 ~ ø50)

With Buffer

How to Order



With lock ring
With buffer

ZP

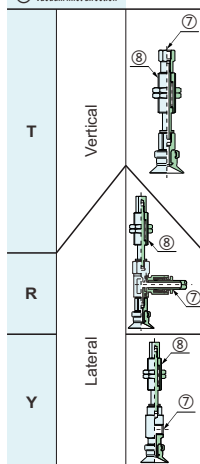
① Vacuum inlet direction	② Pad diameter	③ Pad type	④ Material	⑤ Buffer specification	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread
T	10	U	N	J	10	B5	A10

④ Material	
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

Green symbol is customized models.

⑤ Buffer specification	
J	Rotating
K	Non-rotating

① Vacuum inlet direction



③ Pad type	② Pad diameter (mm)	10	13	16	20	25	32	40	50
U	Flat Type	●	●	●	●	●	●	●	●
C	Flat Type with Ribs	●	●	●	●	●	●	●	●
B	Bellows Type	●	●	●	●	●	●	●	●
D	Deep Type	●	—	●	—	●	—	●	—
⑥ Buffer stroke	6	6 mm	●	—	—	—	—	—	—
	10	10 mm	●	—	●	—	—	●	—
	15	15 mm	●	—	—	—	—	—	—
	20	20 mm	●	—	—	—	—	—	—
	25	25 mm	●	—	—	—	—	—	—
	30	30 mm	●	—	—	—	—	—	—
	40	40 mm	●	—	—	—	—	—	—
⑦ Vacuum inlet	50	50 mm	●	—	—	—	—	—	—
	One-touch fitting	B5	M5 x 0.8	●	—	●	—	●	—
		B01	Rc1/8	—	—	—	—	—	—
		04	ø4	●	—	●	—	—	—
		06	ø6	●	—	●	—	—	—
		08	ø8	—	—	—	—	—	—
	Barb fitting	U4	For ø4 soft tubing	●	—	—	—	—	—
		N4	For ø4 nylon tubing	●	—	—	—	—	—
		U6	For ø6 soft tubing	●	—	●	—	●	—
		N6	For ø6 nylon tubing	●	—	●	—	●	—
	One-touch fitting	04	ø4	●	—	●	—	—	—
		06	ø6	●	—	●	—	—	—
		08	ø8	—	—	●	—	●	—
	Barb fitting	B5	M5 x 0.8	●	—	●	—	●	—
		U4	For ø4 soft tubing	●	—	—	—	—	—
		N4	For ø4 nylon tubing	●	—	—	—	—	—
		U6	For ø6 soft tubing	●	—	●	—	●	—
		N6	For ø6 nylon tubing	●	—	●	—	●	—
⑧ Connection thread	Male thread	A8	M8 x 1	●	—	—	—	—	—
		A10	M10 x 1	●	—	—	—	—	—
		A14	M14 x 1	—	—	—	—	—	—

Spring reactiveforce

Connection thread	M8 x 1	M10 x 1	M14 x 1
Tightening torque [N·m]	1.5 ~ 2.0	2.5 ~ 3.5	6.5 ~ 7.5
Spring reactiveforce [N]	At 0 stroke	0.8	1.0
	At full stroke	1.2	3.0

With Lock Ring (ø10 ~ ø50)U/C

Vertical

With Buffer

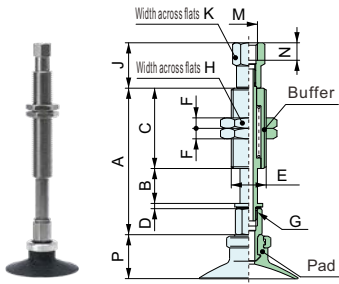
ZP Series

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical U/C

B5,B01



Dimensions Per pad

② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

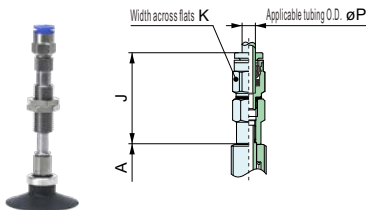
Dimensions Per buffer

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	A	B	C	D	E	F	G	H	Buffer	⑨ Buffer spec.	⑩ Buffer stroke	⑪ Vacuum inlet	⑫ Connection thread											
ZP	T	10 13 16	U	N S U F G N S	J K	6	B5	A8	32.5	6	15	2.5	M8x1	3	M5x0.8	12	ZPT2	J	6	B5	04 06 N4 U4 N6 U6	A8										
						10			64.5	10	43								10													
						15			69.5	15	25								15													
						25			79.5	25									25													
						10		A10	43.5	10	23								10													
						20			81.5	20	51								20													
						30			91.5	30									30													
						40			127.5	40	77								40													
						50			137.5	50									50													
						10			43.5	10	23		1.5	M10x1	3	M5x0.8	14	ZPT2	10													
		20				81.5			20	51	20																					
		30				91.5			30		30																					
		40				127.5			40	77	40																					
		50				137.5			50		50																					
		10				77.5			10		10																					
	20	87.5				20	50	2.5	M14x1	5	M8x1.25	19	ZPT3	20																		
	30	97.5				30								30																		
	50	142.5				50	75							50																		
	10	76				10								10																		
	20	86				20	50							20																		
	30	96				30								30																		
	50	141				50	75							50																		
	40 50	40 50				40 50	N6 U6							K	B5 B01	06 08 N6 U6	A14															

Dimensions Per Vacuum Inlet: Female Thread

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	M	N	Min. hole size				
ZP	T	10,13,16	U	N S U F G N S	J K	6,10,15,25	B5	A8	12	ø7对边6	M5x0.8	5	ø2.5				
		10,20,30,40,50				A10		13	8								
		20 25 32 40 50									B5	A14	15	10	M5x0.8	5	ø4
		20,30,50											9				ø3
		10											16.5	ø4			
		20,30,50											12	ø3			
													13	Rc1/8	7		

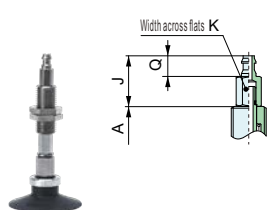
04,06,08



Dimensions Per Vacuum Inlet: One-touch Fitting

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	øP	Min. hole size
ZP	T	10,13,16	U C	N S U F G N S	J K	6,10,15,25	04	A8	26.8	8(04)	4(04)	ø2.5
		10,13,16,20,25,32				10,20,30,40,50	06	A10	27.8	10(06)	6(06)	
		20 25 32 40 50				10	06	A14	35	12	6	ø4
									40.5	14	8	ø3
									30.5	12	6	ø4
									36	14	8	ø3

N4,U4,N6,U6



Dimensions Per Vacuum Inlet: Barb Fitting

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	Q	Min. hole size
ZP	T	10,13,16	U C	N S U F G N S	J K	6,10,15,25	N4,U4	A8	14	6	5	ø1.7
		N6,U6					15		7		ø2.5	
		10,13,16,20,25,32				10,20,30,40,50	N4,U4	A10	14	6	5	ø1.7
		N6,U6					15		7		ø2.5	
		20,25,32,40,50				10	N6 U6	A14	19	10	7	ø2.5
						20,30,50			12			

Model for refer: ZPT10UGNJ10-B5-A10 Buffer for refer:ZPT2-J10-B5-A10

ZP Series

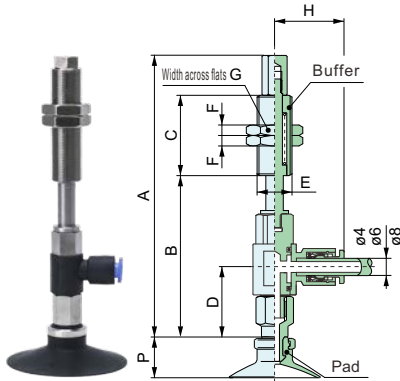
With Lock Ring(ø10 ~ ø50)U/C

With Buffer **Lateral**

Dimensions

Green symbol is customized models. (mm)

ZPR Lateral U/C



Dimensions Per pad

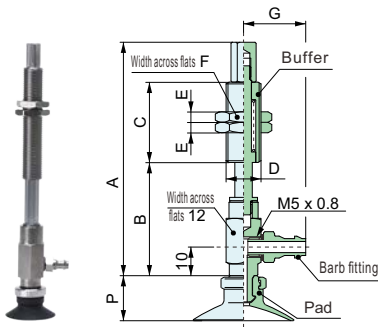
② Pad dia.	10	13	16	20	25	32	40	50
P	12	12	12.5	14	14	14.5	18.5	19.5

Dimensions Per buffer

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	A	B	C	D	E	F	G	H	Buffer	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	
ZP	R	10 13 16	U	N S U F G N S	J K	6	04	A8	68	42	15	17.9	M8x1	3	12	04: 20.6 06: 21.6	ZPR2	J K	6	04	06	A8
						10			100	46	43								10			
						15			105	51									15			
						25			115	61									25			
						10	04	A10	79	45	23	17.9	M10x1	3	14	04: 20.6 06: 21.6	ZPR2		10	04	06	A10
						20			117	55	51								20			
						30			127	65									30			
						40			163	75									40			
						50			173	85	77								50			
		10				04	A10	88.6	54.6	23	25.8	M10x1	3	14	04: 23.3 06: 24.3 08: 26.2	ZPR3	10		04	06	A10	
		20						126.6	64.6	51							20					
		30						136.6	74.6								30					
		40						172.6	84.6								40					
		50						182.6	94.6	77							50					
		10				04	A14	123.6	55.6	50	25.8	M14x1	5	19	04: 23.3 06: 24.3 08: 26.2	ZPR3	10		04	06	08	A14
		20						120.6	65.6								20					
		30						130.6	75.6								30					
		50						175.6	95.6	75							50					
		10				06	A14	122.1	54.1	50	24.3	M14x1	5	19	06: 24.3 08: 26.2	ZPR4	10		06	08	A14	
		20						119.1	64.1								20					
		30						129.1	74.1								30					
		50						174.1	94.1	75							50					

Model for refer: ZPR10USJ10-06-A10 Buffer for refer: ZPR2-J10-06-A10

ZPY Lateral U/C



With Lock Ring (ø10 ~ ø50)B

Vertical

With Buffer

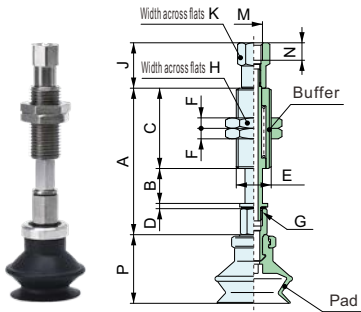
ZP Series

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical B

B5,B01



Dimensions Per pad

② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

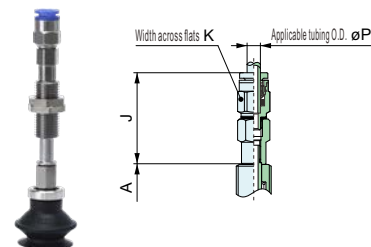
Dimensions Per buffer

Model	①	②	③	④	⑤	⑥	⑦	⑧	A	B	C	D	E	F	G	H	Buffer	⑨	⑩	⑪	⑫
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Buffer spec.	Buffer stroke	Vacuum inlet	Connection thread										Buffer spec.	Buffer stroke	Vacuum inlet	Connection thread
ZP	T	10 13 16	B	N S U F G N S	J K	6	A8		32.5	6	15	2.5	M8x1	3	M5x0.8	12	ZPT2	J K	6	A8	
						10			64.5	10	43								10		
						15			69.5	15	25								15		
						25			79.5	25									25		
						10	B5 04 06 N4 U4 N6 U6	A10	43.5	10	23	1.5	M10x1	3	M5x0.8	14	ZPT2		10		
		20				81.5			20	51	20										
		30				91.5			30	77	30										
		40				127.5			40		40										
		50				137.5			50		50										
		10				43.5			10	23	10										
	20	81.5				20	51	20													
	30	91.5				30	77	30													
	40	127.5				40		40													
	50	137.5				50		50													
	10	B5 06 08 N6 U6				A14	77.5	10	50	2.5	M14x1	5	M8x1.25	19	ZPT3	10					
	20						87.5	20	75							20					
	30						97.5	30								30					
	50						142.5	50								50					
	10						76	10	50							10					
	20						86	20								20					
	30	96				30		30													
	50	141				50	75	50													
40 50																					

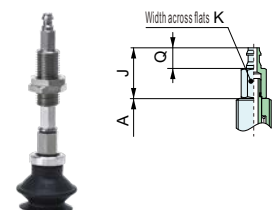
Dimensions Per Vacuum Inlet: Female Thread

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Conneion thread	J	K	M	N	Min. hole size				
ZP	T	10,13,16	B	N S U F G N S	J K	6,10,15,25	B5	A8	12	ø7对边6	M5x0.8	5	ø2.5				
		10,20,30,40,50				A10			13					8			
		20 25 32 40 50				10	B5	A14	15	10	M5x0.8	5	ø4				
						20,30,50			9					ø3			
						10			16.5					ø4			
						20,30,50			B01					13	Rc1/8	7	ø3

04,06,08



N4,U4,N6,U6



Dimensions Per Vacuum Inlet: One-touch Fitting

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	øP	Min. hole size	
ZP	T	10,13,16	B	N S U F G N S	J K	6,10,15,25	04	A8	26.8	8(04)	4(04)	ø2.5	
		10,13,16,20,25,32				10,20,30,40,50	06	A10	27.8	10(06)	6(06)		
		20 25 32 40 50				10	20 30 50	06	A14	35	12	6	ø4
								40.5		14	8	ø3	
								30.5		12	6	ø4	
								36		14	8	ø3	

Dimensions Per Vacuum Inlet: Barb Fitting

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	Q	Min. hole size
ZP	T	10,13,16	B	N S U F G N S	J K	6,10,15,25	N4,U4 N6,U6	A8	14	6	5	ø1.7
								15	7		ø2.5	
		10,13,16,20,25,32				10,20,30,40,50	N4,U4 N6,U6	A10	14	6	5	ø1.7
								15	7		ø2.5	
		20,25,32,40,50				10	N6 U6	A14	19	10	7	ø2.5
						20,30,50			12			

Model for refer: ZPT10BNJ10-B5-A10 Buffer for refer: ZPT2-J10-B5-A10

ZP Series

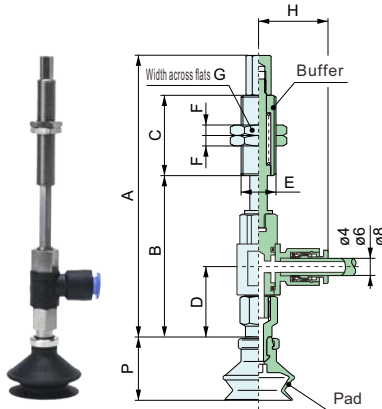
With Lock Ring(ø10 ~ ø50)B

With Buffer **Lateral**

Dimensions

Green symbol is customized models. (mm)

ZPR **Lateral** **B**



Dimensions Per pad

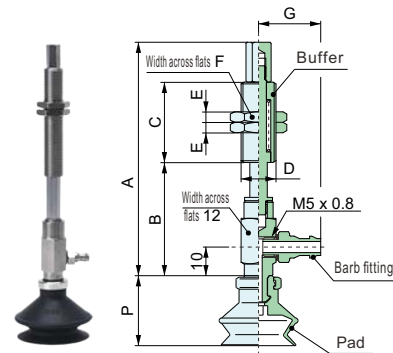
② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per buffer

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	A	B	C	D	E	F	G	H	Buffer	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	
ZP	R	10 13 16	B	N S U F G N S	J K	6	04 06	A8	68	42	15	17.9	M8x1	3	12	04: 20.6 06: 21.6	ZPR2	J K	6	10 15 25	04 06	A8
						10			100	46	43											
						15			105	51												
						25			115	61												
						10	04 06	A10	79	45	23	17.9	M10x1	3	14	04: 20.6 06: 21.6	ZPR2		10	20 30 40 50	04 06	A10
						20			117	55	51											
						30			127	65												
						40			163	75									77			
						50			173	85												
		10				04 06	A10	88.6	54.6	23	25.8	M10x1	3	14	04: 23.3 06: 24.3 08: 26.2	ZPR3	10		20 30 40 50	04 06 08	A10	
		20						126.6	64.6	51												
		30						136.6	74.6													
		40						172.6	84.6								77					
		50						182.6	94.6													
		10				04 06	A14	123.6	55.6	50	25.8	M14x1	5	19	04: 23.3 06: 24.3 08: 26.2	ZPR3	10		20 30 50	04 06 08	A14	
		20						120.6	65.6													
		30						130.6	75.6													
		50						175.6	95.6	75												
		10						06 08	A14	122.1							54.1					50
		20				119.1	64.1															
		30				129.1	74.1															
		50				174.1	94.1			75												

Model for refer: ZPR10BSJ10-06-A10 Buffer for refer: ZPR2-J10-06-A10

ZPY **Lateral** **B**



Dimensions Per pad

② Pad dia.	10	13	16	20	25	32	40	50
P	16	18.5	20	23.5	24	29	34	38

Dimensions Per buffer

Model	①	②	③	④	⑤	⑥	⑦	⑧	A	B	C	D	E	F	G	Buffer				
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Buffer spec.	Buffer stroke	Vacuum inlet										Connection thread	⑤	⑥	⑦
ZP	Y	10 13 16	B	N S U F G N S	J K	6	B5 N4 U4 N6 U6	A8	68	42	15	M8x1	3	12	N4,U4: 14.5 N6,U6: 16.5	ZPY2	J K	6	B5	A8
						10			100	46	43							B5 N4 U4 N6 U6		
						15			105	51									ZPY2	
						25			115	61										
						10	79	45	23	M10x1	3	14	N4,U4: 14.5 N6,U6: 16.5	ZPY2	10	B5 N4 U4 N6 U6				A10
						20	117	55	51						ZPY2					
						30	127	65	ZPY2											
						40	163	75										77	ZPY2	
						50	173	85		ZPY2										
		10				88.6	54.6	23			M10x1	3	14	N4,U4: 14.5 N6,U6: 16.5	ZPY3	10		B5 N4 U4 N6 U6		A10
		20				126.6	64.6	51	ZPY3											
		30				136.6	74.6	ZPY3												
		40				172.6	84.6			ZPY3										
		50				182.6	94.6				ZPY3									
		10				123.6	55.6		M14x1			5	19	N4,U4: 14.5 N6,U6: 16.5	ZPY3	10		B5 N4 U4 N6 U6	A14	
		20				120.6	65.6	50								ZPY3				
		30				130.6	75.6	ZPY3												
		50				175.6	95.6			75	ZPY3									
		10				122.1	54.1		M14x1	5		19	N6,U6: 16.5	ZPY4	10			B5 N6 U6	A14	
		20				119.1	64.1								ZPY4					
		30				129.1	74.1	ZPY4												
		50				174.1	94.1				75					ZPY4				

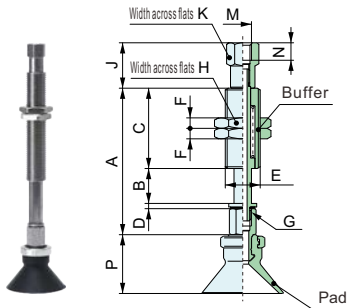
Model for refer: ZPY10BSJ10-06-A10 Buffer for refer: ZPY2-J10-06-A10

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical D

B5,B01



Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

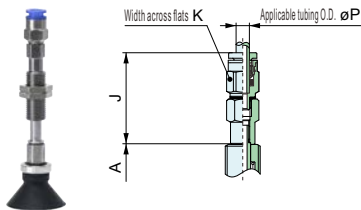
Dimensions Per buffer

Model	①	②	③	④	⑤	⑥	⑦	⑧	A	B	C	D	E	F	G	H	Buffer	⑨	⑩	⑪	⑫							
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Buffer spec.	Buffer stroke	Vacuum inlet	Connection thread										Buffer spec.	Buffer stroke	Vacuum inlet	Connection thread							
ZP	T	10 16	D	N S U F G N G S	J K	6	B5 04 06 N4 U4 N6 U6	A8	32.5	6	15	2.5	M8x1	3	M5x0.8	12	ZPT2	J K	6	B5 04 06 N4 U4 N6 U6	A8							
						10			64.5	10	43								10									
						15			69.5	15									15									
						25			79.5	25									25									
						10		A10	43.5	10	23	1.5	M10x1	3	M5x0.8	14	ZPT2		10									
						20			81.5	20	51								20									
						30			91.5	30									30									
						40			127.5	40	77								40									
						50			137.5	50									50									
						10			43.5	10	23								10									
		25 40				20	81.5		20	51									20									
						30	91.5		30										30									
						40	127.5		40	77									40									
						50	137.5		50										50									
						10	A14	77.5	10	50							10											
						20		87.5	20								20											
						30		97.5	30								30											
						50		142.5	50	75							50											
						10		76	10								10											
						20		86	20	50							20											
						30		96	30								30											
						50		141	50								75											
		40				10	A14	76	10	50							10											
						20		86	20								20											
						30		96	30								30											
						50		141	50								50											

Dimensions Per Vacuum Inlet: Female Thread

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	M	N	Min. hole size	
ZP	T	10,16	D	N S U F G N G S	J K	6,10,15,25	B5	A8	12	ø7对边6	M5x0.8	5	ø2.5	
		10,20,30,40,50				A10		13	8					
		10,16,25				25 40	10	B5	A14	15	10	M5x0.8	5	ø4
		20,30,50					9			ø3				
		10					B01	16.5		13	Rc1/8	7	ø4	
		20,30,50						12						ø3

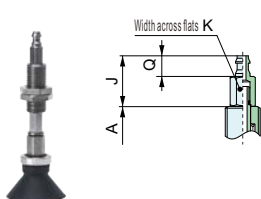
04,06,08



Dimensions Per Vacuum Inlet: One-touch Fitting

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	øP	Min. hole size
ZP	T	10,13,16	D	N S U F G N G S	J K	6,10,15,25	04	A8	26.8	8(04)	4(04)	ø2.5
		10,20,30,40,50				06	A10	27.8	10(06)	6(06)		
		25 40				10	06	A14	35	12	6	ø4
						20 30 50	06		40.5	14	8	ø3
							06		30.5	12	6	ø4
							08		36	14	8	ø3

N4,U4,N6,U6



Dimensions Per Vacuum Inlet: Barb Fitting

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	J	K	Q	Min. hole size		
ZP	T	10 16	D	N S U F G N G S	J K	6,10,15,25	N4,U4 N6,U6	A8	14	6	5	ø1.7		
						10,20,30,40,50	N4,U4 N6,U6	A10	15		7	ø2.5		
		10							N6 U6	A14	14	6	5	ø1.7
											15		7	ø2.5
		25 40							20,30,50	19	10	7	ø2.5	
						12								

Model for refer: ZPT10DNJ10-B5-A10 Buffer for refer: ZPT2-J10-B5-A10

ZP Series With Lock Ring(ø10 ~ ø40)D
With Buffer **Lateral**

Dimensions

Green symbol is customized models. (mm)

ZPR Lateral D

Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per buffer

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	A	B	C	D	E	F	G	H	Buffer	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread											
ZP	R	10 16	D	N S U F G N S	J K	6	10	A8	68	42	15	17.9	M8x1	3	12	04: 20.6 06: 21.6	ZPR2	J K	6	10	04 06	A8										
						10	15		100	46	43								10	15												
						15	25		105	51									25													
						10	10		79	45	23								10													
						20	20	A10	117	55	51	17.9	M10x1	3	14	04: 20.6 06: 21.6	ZPR2		20	04 06	A10											
						30	30		127	65	77								30													
						40	40		163	75									40													
						50	50		173	85	77								50													
		25				10	10	A10	88.6	54.6	23	25.8	M10x1	3	14	04: 23.3 06: 24.3 08: 26.2	ZPR3		10	04 06	A10											
						20	20		126.6	64.6	51								20													
						30	30		136.6	74.6	77								30													
						40	40		172.6	84.6									40													
						50	50		182.6	94.6									50													
						10	10	A14	123.6	55.6	50	25.8	M14x1	5	19	04: 23.3 06: 24.3 08: 26.2	ZPR3		10	04 06	A14											
						20	20		120.6	65.6									20													
						30	30		130.6	75.6									30													
						50	50		175.6	95.6	75																					

Model for refer: ZPR10DSJ10-06-A10 Buffer for refer:ZPR2-J10-06-A10

ZPY Lateral D

Dimensions Per pad

② Pad dia.	10	16	25	40
P	15	16	20	29

Dimensions Per buffer

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread	A	B	C	D	E	F	G	Buffer	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet	⑧ Connection thread											
ZP	Y	10 16	D	N S U F G N S	J K	6	B5 N4 U4 N6 U6	A8	68	42	15	M8x1	3	12	N4,U4: 14.5 N6,U6: 16.5	ZPY2	J K	6	10	B5 N4 U4 N6 U6	A8										
						10	15		100	46	43								10			15									
						15	25		105	51									25												
						10	10		79	45	23							10													
						20	20	A10	117	55	51	M10x1	3	14	N4,U4: 14.5 N6,U6: 16.5	ZPY2		20	B5 N4 U4 N6 U6	A10											
						30	30		127	65	77										30										
						40	40		163	75											40										
						50	50		173	85	77							50													
		25				10	10	A10	88.6	54.6	23	M10x1	3	14	N4,U4: 14.5 N6,U6: 16.5	ZPY3		10	B5 N4 U4 N6 U6	A10											
						20	20		126.6	64.6	51							20													
						30	30		136.6	74.6	77										30										
						40	40		172.6	84.6											40										
						50	50		182.6	94.6											50										
						10	10	A14	123.6	55.6	50	M14x1	5	19	N4,U4: 14.5 N6,U6: 16.5	ZPY3		10	B5 N4 U4 N6 U6	A14											
						20	20		120.6	65.6								20													
						30	30		130.6	75.6								30													
						50	50		175.6	95.6	75																				

Model for refer: ZPY10DSJ10-06-A10 Buffer for refer:ZPY2-J10-06-A10