

Heavy-duty Pad **ZP Series**

(ø40 ~ ø125)

How to Order



Pad Unit

ZP

② Pad diameter
40

③ Pad type
H

④ Material
N

② Pad diameter	
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100
125	ø125

③ Pad type	
H	Flat with rib
HB	Bellows type

④ Material	
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM

Green symbol is customized models.

Pad Material and Characteristics

○ :Little or no influence △ :Can be used depending on conditions X :Not suitable

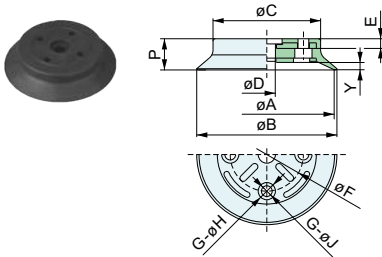
Characteristics	Symbol	Durometer HS (±5°)	Color of rubber	Operating temperature range (°C)	Oil resistance gasoline	Oil resistance benzol	Base resistance	Acid resistance	Weatherability	Ozone resistance	Abrasion resistance	Waterproof	Solvent resistance (Benzene, toluene)	Application
NBR	N	50	Black	0 ~ 120	○	X	△	△	X	X	○	△	X	Transfer of general work, Corrugated board, Veneer plate, Iron plate and others
Silicone rubber	S	45 ~ 50	White	-30 ~ 200	X	X	△	X	○	○	X	△	X	Semiconductor, Removing from die-casting, Thin work, Food processor
Urethane rubber	U	50 ~ 60	Brown	0 ~ 60	○	X	X	X	△	○	○	X	X	Corrugated board, Iron plate, Veneer plate
FKM	F	60		0 ~ 250	○	○	X	○	○	○	△	○	○	Chemical work
Conductive NBR	GN	50 ~ 65	Black	0 ~ 100	△	X	△	X	△	X	△	△	○	General work of semiconductor (Static electricity resistance)
Conductive silicone rubber	GS	50 ~ 60		-10 ~ 200	X	X	△	X	○	○	X	△	X	Semiconductor (Static electricity)

The above table covers only general characteristics of subject rubber materials. Green symbol is customized models.

Dimensions

Green symbol is customized models. (mm)

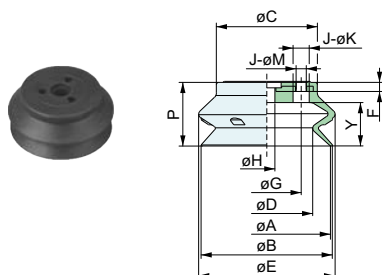
H Flat with rib



Model	② Pad dia.	③ Pad type	④ Pad Material	øA	øB	øC	øD	E	øF	G	øH	øJ	P	Y
ZP	40	H	N S U F	40	43	32	6	3.5	18	3	6.5	4	11.5	3
	50			50	53	42								
	63			63	65	50								
	80			80	82	61	8	4.5	34	4	8	5	14.5	3.5
	100			100	103	80								
	125			125	128	104								

Model for refer: ZP40HN

HB Bellows type



Model	② Pad dia.	③ Pad type	④ Pad Material	øA	øB	øC	øD	øE	F	øG	øH	J	øK	øM	P	Y
ZP	40	HB	N S U F	40	41	30	28	43	3.5	18	6	3	6.5	4	20.5	13
	50			50	52	40.5	36	54								
	63			63	65	50	46	68								
	80			80	83	64	58	85	5	34	8	4	8	5	31.5	21.5
	100			100	103	80	69	107								
	125			125	129	105	89	135								

Model for refer: ZP40HBN

ZP Series

Heavy-duty Pad (ø40 ~ ø125)
With Adapter / With Buffer

How to Order



With Adapter

ZP

T

40

H

N

—

A14

① Vacuum inlet direction

		⑦ Vacuum inlet	⑧ Connection thread	⑦ Vacuum inlet	⑧ Connection thread
T	Vertical	⑦	Rc1/8	⑦	⑧
X	Lateral	⑦	Rc1/8	⑦	⑧

Pad diameter		40	50	63	80	100	125
B6	M6x1	●	—	—	—	—	—
	M8x1.25	●	●	—	—	—	—
	M10x1.5	●	●	●	—	—	—
	M12x1.75	—	—	●	●	—	—
B16	M16x1.5	—	—	●	●	●	—
	M14x1.0	●	—	—	—	—	—
	M16x1.5	—	●	●	—	—	—
	M8x1.25	●	—	—	—	—	—
B10	M10x1.5	●	●	●	●	●	—
	M12x1.75	—	—	●	●	●	—
	M12x1.75	—	—	●	●	●	—
	M12x1.75	—	—	●	●	●	—
B01	Rc1/8	●	●	●	●	●	●

② Pad diameter	
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100
125	ø125

④ Material	
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM

Green symbol is customized models.

③ Pad type	
H	Flat with rib
HB	Bellows type



With Buffer

ZP

T

40

H

N

J

10

—

B01

—

A18

① Vacuum inlet direction	
T	Vertical
X	Lateral

② Pad diameter	
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100
125	ø125

③ Pad type	
H	Flat with rib
HB	Bellows type

④ Material	
N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM

Green symbol is customized models.

⑤ Buffer specification	
J	Rotating(Aluminum,Without Bushing)
JB	Rotating(Brass,With Bushing)
JF	Rotating(Steel,With Bushing)
KB	Non-rotating(Brass,With Bushing)

⑦ Vacuum inlet	
B01	Rc1/8

		Pad diameter							
		40	50	40	50	63	80	100	125
⑥ Buffer stroke	10	10 mm	●	—	—	—	—	—	—
	20	20 mm	●	—	—	—	—	—	—
	25	25 mm	—	—	—	—	—	—	—
	30	30 mm	●	—	—	—	—	—	—
	50	50 mm	—	—	—	—	—	—	—
	75	75 mm	—	—	—	—	—	—	—
⑧ Connection thread	100	100 mm	—	—	—	—	—	—	—
	A14	M14x1	●	—	—	—	—	—	—
	A18	M18x1.5	—	—	—	—	—	—	—
	A22	M22x1.5	—	—	—	—	—	—	—

Spring reactiveforce

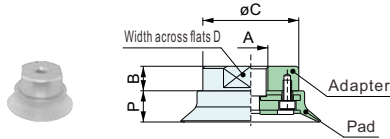
Connection thread	Tightening torque ± 5% [N·m]			Buffer stroke (mm)	Spring reactiveforce [N]	
	Aluminum(J)	Brass,With Bushing(JB/KB)	Steel,With Bushing(JF)		At 0 stroke	At full stroke
M14x1	—	7	—	10	3	4.5
				20		5
				30		5.2
M18x1.5	10	30	50	10	5	6.5
				25	6.9	11.8
				30	5	8.5
				50,75	6.9	11.8
M22x1.5	10	45	75	10	10	11.5
				25		15
				30		13.5
				50,75,100		15

Heavy-duty Pad H (ø40 ~ ø125) With Adapter **ZP Series**

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical Female Thread H



Dimensions Per pad

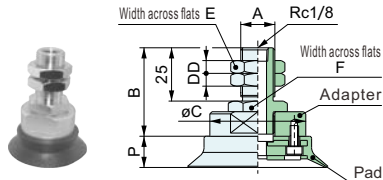
② Pad dia.	40	50	63	80	100	125
P	11.5	11.5	14.5	16.5	21	21

Dimensions Per adapter

Model						A	B	øC	D	Adapter	⑦ Vacuum inlet		
	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet								
ZP	T	40 50	H	N S U F	B6	M6x1	11.5	28	24	ZPA-T1	B6		
					B8	M8x1.25					B8		
					B10	M10x1.5					B10		
		63 80			B8	M8x1.25	11.5	45	37	ZPA-T2	B8		
					B10	M10x1.5					B10		
					B12	M12x1.75					B12		
		100 125			B16	M16x1.5	13	70	60	ZPA-T3	B16		
					B12	M12x1.75					B12		
					B16	M16x1.5					B16		

Model for refer: ZPT63HN-B10 Adapter for refer: ZPA-T2-B10

ZPT Vertical Male Thread H



Dimensions Per pad

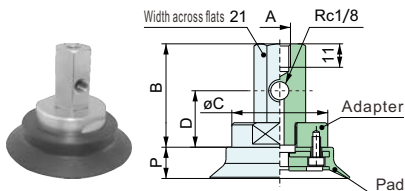
② Pad dia.	40	50	63	80	100	125
P	11.5	11.5	14.5	16.5	21	21

Dimensions Per adapter

Model						A	B	øC	D	E	F	Adapter
	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑧ Connection thread							
ZP	T	40 50	H	N S U F	A14	M14x1.0	41.5	28	5	19	19	ZPA-T1-A14
		A16			M16x1.5	41.5	45	6	22	24	ZPA-T2-A16	
						43	70				ZPA-T3-A16	

Model for refer: ZPT63HN-A16 Adapter for refer: ZPA-T2-A16

ZPX Lateral Female Thread H



Dimensions Per pad

② Pad dia.	40	50	63	80	100	125
P	11.5	11.5	14.5	16.5	21	21

Dimensions Per adapter

Model	①	②	③	④	⑦	⑧	A	B	øC	D	Adapter	⑦	⑧
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Vacuum inlet	Connection thread						Vacuum inlet	Connection thread
ZP	X	40 50	H	N S U F	B01	B8	M8x1.25	48.5	28	26.5	ZPA-X1	B01	B8
						B10	M10x1.5						B10
		63 80				B10	M10x1.5	48.5	45	26.5	ZPA-X2		B10
						B12	M12x1.75						B12
		100 125				B10	M10x1.5	50	70	28	ZPA-X3		B10
						B12	M12x1.75						B12

Model for refer: ZPX63HN-B10-B12 Adapter for refer: ZPA-X2-B01-B12

ZP Series Heavy-duty Pad H (ø40 ~ ø125) With Buffer

Dimensions

Green symbol is customized models. (mm)

ZPT

Vertical Vacuum Entry

H

Dimensions Per pad

② Pad dia.	40	50	63	80	100	125
P	11.5	11.5	14.5	16.5	21	21

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	øC	D	E	F	G	H	J	Buffer	⑨ Buffer spec.	⑩ Buffer stroke	⑪ Vacuum inlet	
ZP	T	40 50	H	N S U F	JB JF KB	10	B01	A14	84.5	28	28	11.5	30	5	12	19	M14x1	ZPB-T1	JB	10	B01-6	
						20		96.5	40	50												
						30		109.5	53	75												
						10		A18	97	30	28	11.5	35	9	14	27	M18x1.5	ZPB-T1	J JB JF KB	10	B01	
						25			107	40										25		
						30			122	55										30		
						50			142	75										50		
						75			178	111										75		
						10			97	30	45	11.5	35	9	14	27	M18x1.5	ZPB-T2		10		
						25			107	40										25		
						30		B01	122	55										30		
						50			142	75										50		
						75			178	111										75		
						10			120	35	70	13	50	8	19	30	M22x1.5	ZPB-T3		10		
						25		A22	131	44										25		
						30			147	60										30		
						50			167	80	50											
75	207	120	75																			
100	242	155	100																			

Model for refer: ZPT100HNJ10-B01-A22 Buffer for refer: ZPB-T3J10-B01

ZPX

Lateral Vacuum Entry

H

Dimensions Per pad

② Pad dia.	40	50	63	80	100	125
P	11.5	11.5	14.5	16.5	21	21

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	øC	D	E	F	G	H	J	K	Buffer	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet			
									A	B	øC	D	E	F	G	H	J	K							
ZP	X	40 50	H	N S U F	J JB KF KB	10	B01	A18	129.5	30	28	48.5	26.5	35	9	14	27	M18x1.5	ZPB-X1		10	J JB KF KB	B01		
						25			139.5	40											25				
						30			154.5	55											30				
						50			174.5	75											50				
						75			210.5	111											75				
						10			129.5	30											10				
						25			139.5	40											25				
						30			154.5	55											30				
						50			174.5	75											50				
						75			210.5	111											75				
						10			154	35											10				
						25			165	44											25				
		30	181	60	30																				
		50	201	80	50																				
		75	241	120	75																				
		100	276	155	100																				
				63 80				10	A22		154	35	70	50	28	50	8	19	30	M22x1.5	ZPB-X3				10
								25			165	44													25
								30			181	60													30
								50			201	80													50
								75			241	120													75
								100			276	155													100

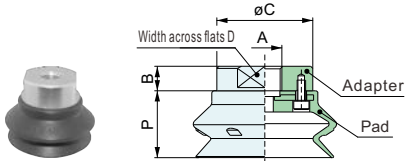
Model for refer: ZPX100HNJ10-B01-A22 Buffer for refer: ZPB-X3J10-B01

Heavy-duty Pad HB (ø40 ~ ø125) With Adapter **ZP Series**

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical Female Thread HB



Dimensions Per pad

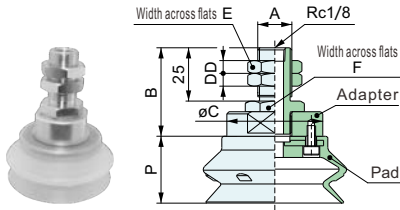
② Pad dia.	40	50	63	80	100	125
P	20.5	24	31.5	37	47.5	56

Dimensions Per adapter

Model						A	B	øC	D	Adapter	⑦ Vacuum inlet		
	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑦ Vacuum inlet								
ZP	T	40 50	HB	N S U F	B6	M6x1	11.5	28	24	ZPA-T1	B6		
					B8	M8x1.25					B8		
					B10	M10x1.5					B10		
		63 80			B8	M8x1.25	11.5	45	37	ZPA-T2	B8		
					B10	M10x1.5					B10		
					B12	M12x1.75					B12		
		100 125			B16	M16x1.5	13	70	60	ZPA-T3	B16		
					B12	M12x1.75					B12		
					B16	M16x1.5					B16		

Model for refer: ZPT63HBN-B10 Adapter for refer: ZPA-T2-B10

ZPT Vertical Male Thread HB



Dimensions Per pad

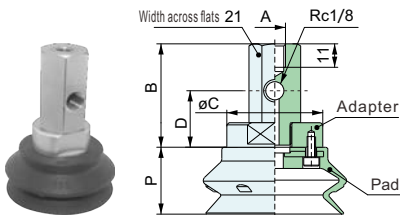
② Pad dia.	40	50	63	80	100	125
P	20.5	24	31.5	37	47.5	56

Dimensions Per adapter

Model	① Vacuum inlet direction	② Pad dia.	③ Pad type	④ Pad Material	⑧ Connection thread	A	B	øC	D	E	F	Adapter							
ZP	T	40 50	HB	N S U F	A14	M14x1.0	41.5	28	5	19	19	ZPA-T1-A14							
		A16			M16x1.5	41.5	45	6	22	24	ZPA-T2-A16								
						43	70				ZPA-T3-A16								
						63 80													
						100 125													

Model for refer: ZPT63HBN-A16 Adapter for refer: ZPA-T2-A16

ZPX Lateral Female Thread HB



Dimensions Per pad

② Pad dia.	40	50	63	80	100	125
P	20.5	24	31.5	37	47.5	56

Dimensions Per adapter

Model	①	②	③	④	⑦	⑧	A	B	øC	D	Adapter	⑦	⑧
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Vacuum inlet	Connection thread						Vacuum inlet	Connection thread
ZP	X	40 50	HB	N S U F	B01	B8	M8x1.25	48.5	28	26.5	ZPA-X1	B01	B8
						B10	M10x1.5						B10
		63 80				B10	M10x1.5	48.5	45	26.5	ZPA-X2		B10
						B12	M12x1.75						B12
		100 125				B10	M10x1.5	50	70	28	ZPA-X3		B10
						B12	M12x1.75						B12

Model for refer: ZPX63HBN-B10-B12 Adapter for refer: ZPA-X2-B01-B12

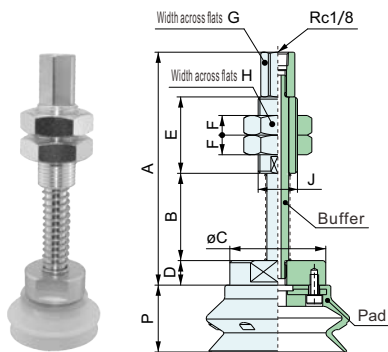
ZP Series

Heavy-duty Pad HB (ø40 ~ ø125)
With Buffer

Dimensions

Green symbol is customized models. (mm)

ZPT Vertical Vacuum Entry HB



Dimensions Per pad

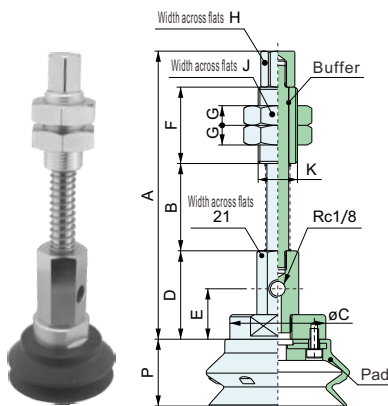
② Pad dia.	40	50	63	80	100	125
P	20.5	24	31.5	37	47.5	56

Dimensions Per buffer

Model	①	②	③	④	⑤	⑥	⑦	⑧	A	B	øC	D	E	F	G	H	J	Buffer	⑤	⑥	⑦				
	Vacuum inlet direction	Pad dia.	Pad type	Pad Material	Buffer spec.	Buffer stroke	Vacuum inlet	Connection thread											Buffer spec.	Buffer stroke	Vacuum inlet				
ZP	T	40 50	HB	N S U F	JB	10	B01	A14	84.5	28	28	11.5	30	5	12	19	M14x1	ZPB-T1	JB	10	B01-6				
						20			96.5	40															
						30			109.5	53															
						10	A18	97	30	28	11.5	35	9	14	27	M18x1.5	ZPB-T1	10	J JB JF KB	10	B01				
						25		107	40																
						30		122	55																
						50		142	75																
						75		178	111																
						10		97	30																
		25			107	40																			
		30			122	55																			
		50			142	75																			
		75			178	111																			
		10			B01	120	35	45	11.5	35	9	14	27	M18x1.5	ZPB-T2	10	J JB JF KB	10							
		25				131	44																		
		30				147	60																		
		50				167	80																		
		75				207	120																		
	100	242	155																						
	10	A22	120	35	70	13	50	8	19	30	M22x1.5	ZPB-T3	10	J JB JF KB	10										
	25		131	44																					
	30		147	60																					
	50		167	80																					
	75		207	120																					
	100		242	155																					
	10		A22	120									35		70	13	50	8	19	30	M22x1.5	ZPB-T3	10	J JB JF KB	10
	25			131									44												
30	147			60																					
50	167	80																							
75	207	120																							
100	242	155																							
10	A22	120		35	70	13	50	8	19	30	M22x1.5	ZPB-T3	10	J JB JF KB									10		
25		131		44																					
30		147		60																					
50		167	80																						
75		207	120																						
100		242	155																						
10		A22	120	35									70		13	50	8	19	30	M22x1.5	ZPB-T3	10	J JB JF KB	10	
25			131	44																					
30			147	60																					
50	167		80																						
75	207		120																						
100	242		155																						
10	A22		120	35	70	13	50	8	19	30	M22x1.5	ZPB-T3		10								J JB JF KB		10	
25			131	44																					
30			147	60																					
50		167	80																						
75		207	120																						
100		242	155																						
10		A22	120	35									70	13	50	8	19	30	M22x1.5	ZPB-T3	10		J JB JF KB	10	
25			131	44																					
30			147	60																					
50	167		80																						
75	207		120																						
100	242		155																						
10	A22		120	35	70	13	50	8	19	30	M22x1.5	ZPB-T3									10	J JB JF KB		10	
25			131	44																					
30			147	60																					
50		167	80																						
75		207	120																						
100		242	155																						
10		A22	120	35									70	13	50	8	19	30	M22x1.5	ZPB-T3	10		J JB JF KB	10	
25			131	44																					
30			147	60																					
50	167		80																						
75	207		120																						
100	242		155																						
10	A22		120	35	70	13	50	8	19	30	M22x1.5	ZPB-T3									10	J JB JF KB		10	
25			131	44																					
30			147	60																					
50		167	80																						
75		207	120																						
100		242	155																						
10		A22	120	35									70	13	50	8	19	30	M22x1.5	ZPB-T3	10		J JB JF KB	10	
25			131	44																					
30			147	60																					
50	167		80																						
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Model for refer: ZPT100HBNJ10-B01-A22 Buffer for refer: ZPB-T3J10-B01

ZPX Lateral Vacuum Entry HB



Dimensions Per pad

② Pad dia.	40	50	63	80	100	125
P	20.5	24	31.5	37	47.5	56

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	øC	D	E	F	G	H	J	K	Buffer	⑤ Buffer spec.	⑥ Buffer stroke	⑦ Vacuum inlet
ZP	X	40 50	HB	N S U F	J B J F	10	B01	A18	129.5	30	28	48.5	26.5	35	9	14	27	M18x1.5	ZPB-X1	J B J F	30	B01
						25			139.5	40												
						30			154.5	55												
						50			174.5	75												
						75			210.5	111												
		10				129.5			30													
		25				139.5			40													
		30				154.5			55													
		50				174.5			75													
		75				210.5			111													
		10				154		35														
		25				165		44														
		30				181		60														
		50				201		80														
		75				241		120														
		100				276		155														