

ZPT VACUUM PADS
VERTICAL ENTRY WITHOUT BUFFER

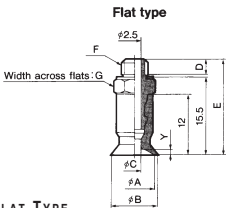
TECHNICAL
SPECIFICATIONS

Vacuum entry	Vertical type
Mounting	Use connection for vacuum entry

Pad type	Flat type	Flat with rib	Deep type
Pad dia. (mm)	2, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50	10, 13, 16, 20, 25, 32, 40, 50	10, 16, 25, 40
Material (colour)	See "How to Order"		
Hardness (shore)	NBR (50°) Silicon (40°) Urethane-flourine (60°)		

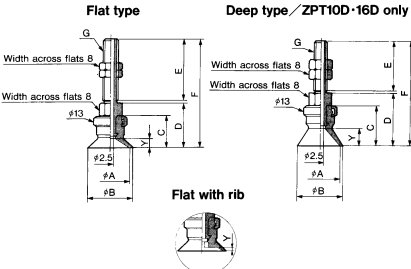


DIMENSIONS
PAD DIAMETERS Ø2, Ø4, Ø6, Ø8



Model	ØA	ØB	ØC	F:M5x0.8			F:M6x1			Y
				D	E	G	D	E	G	
ZPT02U	2	2.6	1.2							0.8
ZPT04U	4	4.8	1.6							
ZPT06U	6	7		3	19	7	4	20	8	
ZPT08U	8	9	2.5							1

DIMENSIONS
PAD DIAMETERS Ø10, Ø13, Ø16



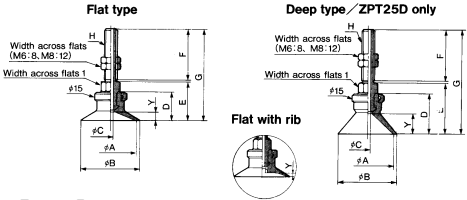
Model	ØA	ØB	C	D	G:M5x0.8		G:M6x1		Y	
					E	F	E	F	Flat	Flat with rib
ZPT10U	10	12	12	17	20	38	25	43	3	1.7
ZPT13U	13	15	12	17	20	38	25	43	3	1.8
ZPT16U	16	18	12.5	17.5	20	38.5	25	43.5	3.5	1.2

Model	ØA	ØB	C	D	G:M5x0.8		G:M6x1		Y
					E	F	E	F	
ZPT10D	10	12	15	20	20	41	25	46	6
ZPT16D	16	18	16	21	20	42	25	47	7



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DIMENSIONS
PAD DIAMETERS Ø20, Ø25, Ø32



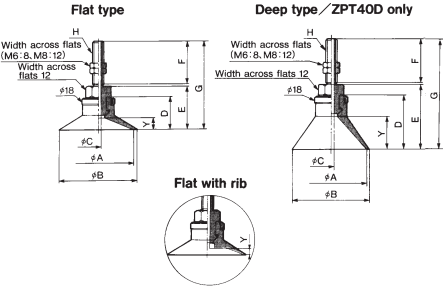
FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	D	H : M6x1					H : M8x1					Y	
				ØC	E	F	G	I	ØC	E	F	G	I	Flat	Flat with rib
ZPT20U	20	23	14	3	19	25	45	8	3.5	24	15	40	12	4	1.7
ZPT25U	25	28	14	3	19	25	45	8	3.5	24	15	40	12	4	1.8
ZPT32U	32	35	14.5	3	19.5	25	45	8	3.5	24.5	15	40.5	12	4.5	2.3

DEEP TYPE

Model	ØA	ØB	D	H:M6x1					H:M8x1					Y
				ØA	E	F	G	I	ØC	E	F	G	I	
ZPT25D	25	28	20	3	25.5	25	51	8	3.5	30.5	15	46	12	10

DIMENSIONS
PAD DIAMETERS Ø40, Ø50



FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	D	E	H:M6x1			H:M8x1			Y	
					ØC	F	G	ØC	F	G	Flat	Flat with rib
ZPT40U	40	43	18.5	24.5	3	15	50.5	4.5	15	40.5	6.5	3.3
ZPT50U	50	53	19.5	25.5	3	15	51.5	4.5	15	41.5	7.5	3.8

DEEP TYPE

Model	ØA	ØB	D	E	H:M6x1			H:M8x1			Y
					ØC	F	G	ØC	F	G	
ZPT40D	40	43	29	35.5	3	25	61	4.5	15	51	17

HOW TO
ORDER
SEE NEXT PAGE

HOW TO ORDER

ZPT PAD VERTICAL TYPE WITHOUT BUFFER

ZPT — — — —

PAD DIAMETER

02 ...Ø2
04 ...Ø4
06 ...Ø6
08 ...Ø8
10 ...Ø10
13 ...Ø13
16 ...Ø16
20 ...Ø20
25 ...Ø25
32 ...Ø32
40 ...Ø40
50 ...Ø50

PAD MATERIAL

NNitrile rubber black (standard)
SSilicon rubber white
UUrethane brown
FFluorine rubber black + mark
GN ...Anti-static Nitrile rubber
GS ...Anti-static Silicon rubber

PAD TYPE

UFlat
CFlat with Rib (Not ø2,4,6,8)
DDeep (ø10,16,25,40)
BBellows (Not ø2,4)

VACUUM ENTRY (ALSO MOUNTING THREAD DIA)

	Symbol	Thread dia.	Ø2-Ø8	Ø10-Ø16	Ø20-Ø32	Ø40-Ø50
Male thread	A5	M5X0.8	•	•		
	A6	M6X1	•	•	•	•
	A8	M8X1			•	•

Ask SMC Regional Offices for female thread versions also available

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
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ZPT VACUUM PADS VERTICAL ENTRY WITH BUFFER



TECHNICAL SPECIFICATIONS

Vacuum entry	Vertical type
Buffer type	Non-rotation type (K)
Buffer stroke	For Ø2-Ø8....6mm
	For Ø10-Ø50....10mm

Pad type	Flat type	Flat with rib	Deep type
Pad dia. (mm)	2, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50	10, 13, 16, 20, 25, 32, 40, 50	10, 16, 25, 40
Material (colour)	See "How to Order"		
Hardness (shore)	NBR (50°) Silicon (40°) Urethane-fluorine (60°)		

SPRING FORCE (N)

Pad dia. (mm)	0 stroke	Stroke end
Ø2-Ø8	0.8	1.2
Ø10-Ø32	1	3
Ø40, Ø50	2	5

HOW TO ORDER

ZPT PAD VERTICAL TYPE WITH BUFFER

ZPT — N — — — —

PAD DIAMETER

02 ...Ø2
04 ...Ø4
06 ...Ø6
08 ...Ø8
10 ...Ø10
13 ...Ø13
16 ...Ø16
20 ...Ø20
25 ...Ø25
32 ...Ø32
40 ...Ø40
50 ...Ø50

PAD TYPE

UFlat
CFlat with Rib (Not ø2,4,6,8)
DDeep (ø10,16,25,40)
BBellows (Not ø2,4)

PAD MATERIAL

NNitrile rubber (standard)
SSilicon rubber
UUrethane
FFluorine rubber
GN ...Anti-static Nitrile rubber
GS ...Anti-static Silicon rubber

VACUUM ENTRY-MOUNTING

	Symbol	Thread dia.	Ø2-Ø8	Ø10-Ø32	Ø40-Ø50
Male thread	A8	M8X1	•		
	A10	M10X1		•	
	A14	M14X1			•

VACUUM ENTRY

	Symbol	Port size	Ø2-Ø8	Ø10-Ø32	Ø40-Ø50
One-touch tube fitting	04	Ø4 tube	•	•	
	06	Ø6 tube	•	•	•
	08	Ø8 tube			•

Ask SMC Regional Offices for female and Barb versions

BUFFER (NON-ROTATION TYPE)

Symbol	Stroke	Ø2-Ø8	Ø10-Ø32	Ø40-Ø50
K6	6mm	•		
K10	10mm		•	•



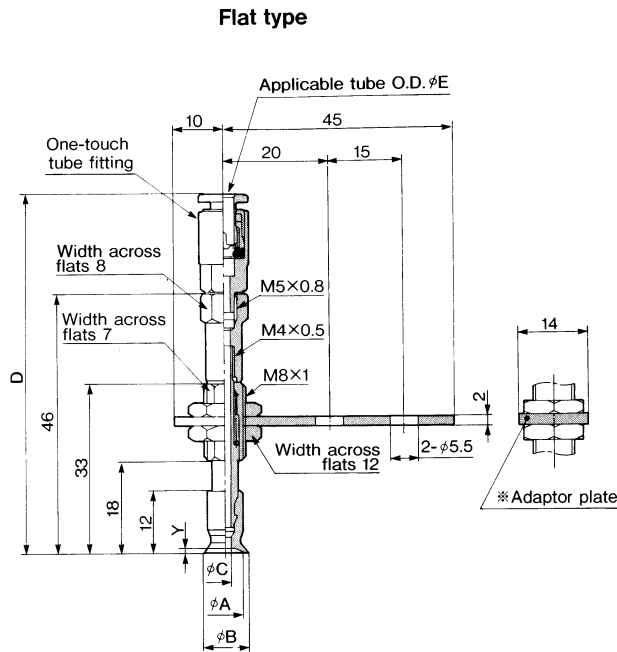
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DIMENSIONS
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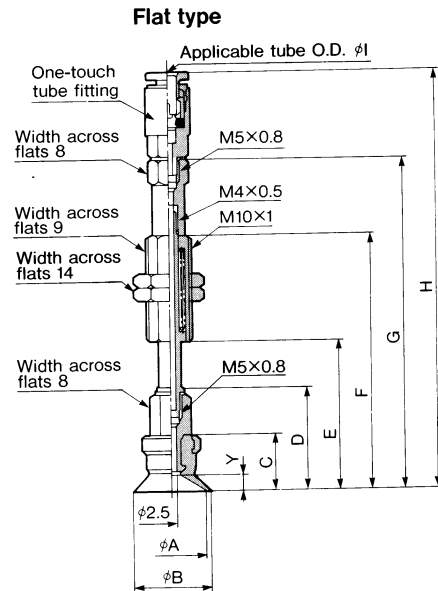
PAD DIAMETER: Ø10 • Ø13 • Ø16



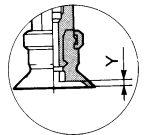
※Adaptor plate : Provided as standard

Flat type

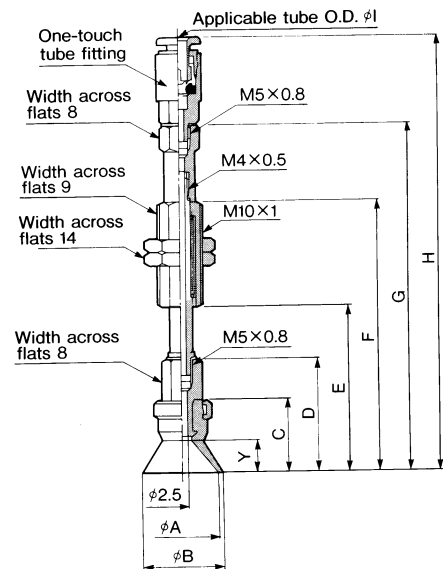
Model	ϕA	ϕB	ϕC	E:4	E:6	Y
				D	D	
ZPT02U	2	2.6	1.2	66	66.5	0.8
ZPT04U	4	4.8	1.6	66	66.5	0.8
ZPT06U	6	7	2.5	66	66.5	0.8
ZPT08U	8	9	2.5	66	66.5	1



Flat with rib



Deep type / ZPT10D·16D only



Weight List

(gf)

Model	Pad type Applicable tube	Flat type			Flat with rib			Deep type		
		φ4	φ6	φ8	φ4	φ6	φ8	φ4	φ6	φ8
ZPT02	}	29	30	—	—	—	—	—	—	—
ZPT08										
ZPT10										
ZPT13										
ZPT16										
ZPT20	30	30	—	30	30	—	30	30	—	
ZPT25							—	—	—	
ZPT32	32	32	—	32	32	—	30	30	—	
ZPT400							—	—	—	
ZPT50	32	32	—	32	32	—	33	33	—	
	33	33	—	33	33	—	—	—	—	
	—	105	110	—	105	110	—	105	110	
	—	105	115	—	105	115	—	—	—	

Flat type · Flat with rib type

Model	ϕA	ϕB	C	D	E	F	G	1:4	1:6	Y	
								H	H	Flat	Flat with rib
ZPT10 U_C^U	10	12	12	21	32.5	55.5	68.5	88.5	89	3	1.7
ZPT13 U_C^U	13	15	12	21	32.5	55.5	68.5	88.5	89	3	1.8
ZPT16 U_C^U	16	18	12.5	21.5	33	56	69	89	89.5	3.5	1.2

Deep type

Model	φA	φB	C	D	E	F	G	I:4	I:6	Y
								H	H	
ZPT10D	10	12	15	24	35.5	58.5	71.5	91.5	92	6
ZPT16D	16	18	16	25	36.5	59.5	72.5	92.5	93	7



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VACUUM PADS SERIES ZP

DIMENSIONS

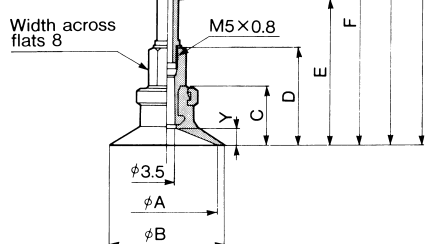
ZPT WITH ONE TOUCH TUBE FITTING (BUFFER)

PAD DIAMETER: Ø20 • Ø25 • Ø32

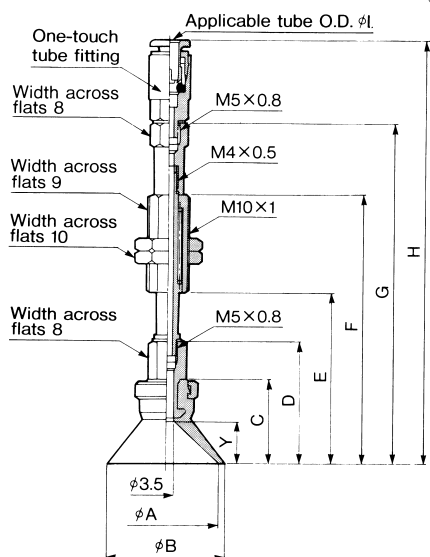
Model	φA	φB	Flat type	E	F	G	I:4	I:6	Y					
							H	H	Flat	Flat with rib				
ZPT20 ^U _C	20	23		14	23	Applicable tube O.D. φ1		34.5	57.5	70.5	90.5	91	4	1.7
ZPT25 ^U _C	25	28		14	25	34.5	57.5	70.5	90.5	91	4	1.8		
ZPT32 ^U _C	32	35		14.5	28.5	35	58	71	91	91.5	4.5	2.3		

Deep type

Model	Width across flats 9		Width across flats 14		M10×1		G	I:4 H	I:6 H	Y
ZPT25D	25	28	20	29	40.5	63.5	76.5	96.5	97	10



Deep type / ZPT25D only



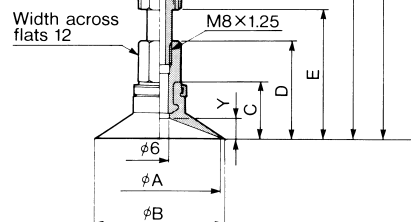
Flat type • Flat with rib

PAD DIAMETER: Ø40 • Ø50

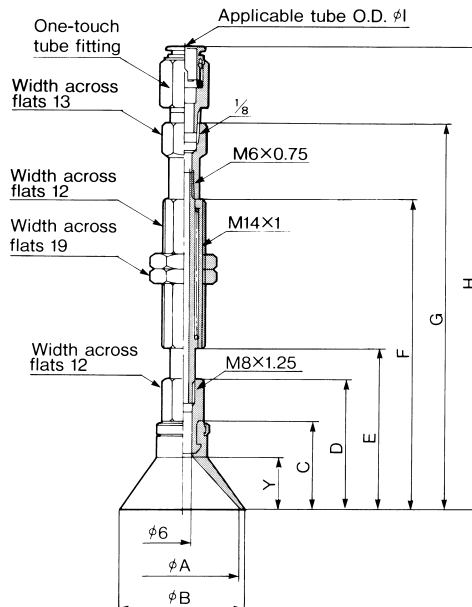
Model	φA	φB	Flat type	E	F	G	I:6 H	I:8 H	Y		
ZPT40 ^U _C	40	43	18.5	32	44.5	94.5	109.5	128	133.5	6.5	3.3
ZPT50 ^U _C	50	53	19.5	33	45.5	95.5	110.5	129	134.5	7.5	3.8

Deep type

Model	φA	φB	C	D	E	F	G	I:6	I:8	Y
								H	H	
ZPT40D	40	43	29	42.5	55	105	120	138.5	144	17

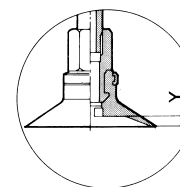


Deep type / ZPT40D only



Flat type • Flat with rib

Flat with rib


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ZPR VACUUM PADS

HORIZONTAL TYPE VACUUM ENTRY

WITHOUT BUFFER - ONE TOUCH FITTING

TECHNICAL

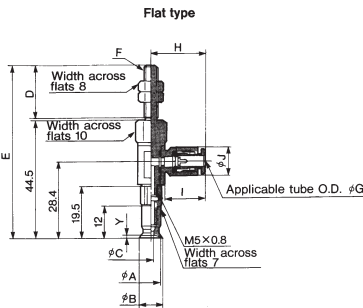
SPECIFICATIONS

Vacuum entry	Horizontal type		
Connection	With one-touch tube fitting		
Pad type	Flat type	Flat with rib	Deep type
Pad dia. (mm)	2, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50	10, 13, 16, 20, 25, 32, 40, 50	10, 16, 25, 40
Material (colour)	See "How to Order"		
Hardness (Shore)	NBR (50°) Silicon (40°) Urethane-flourine (60°)		



DIMENSIONS

PAD DIAMETERS Ø2, Ø4, Ø6, Ø8



FLAT TYPE

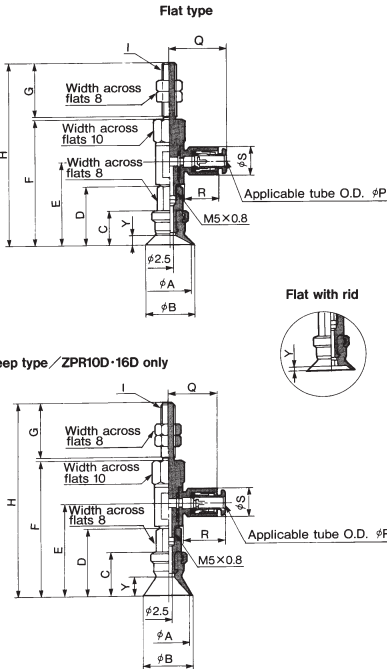
Model	ØA	ØB	ØC	F: M5X0.8		F: M6X1		Y
				D	E	D	E	
ZPR02U	2	2.6	1.2	20	65.5	25	70.5	0.8
ZPR04U	4	4.8	1.6					0.8
ZPR06U	6	7	2.5					0.8
ZPR08U	8	9	2.5					1

APPLICABLE TUBE

Applicable Tube O.D.	ØG	H	I	ØJ
Ø4	4	20.6	15.6	10.4
Ø6	6	21.6	16.68	12.88

DIMENSIONS

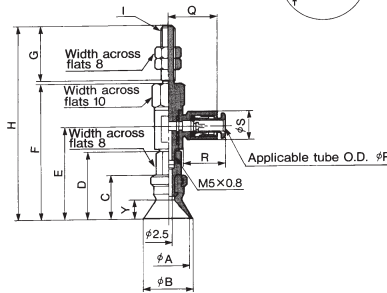
PAD DIAMETERS Ø10, Ø13, Ø16



Flat with rid



Deep type / ZPR10D-16D only



FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	C	D	E	F	I: M5X0.8		I: M6X1		Y	
							G	H	G	H	Flat	Flat with rib
ZPR10U	10	12	12	21	29.9	46	20	67	25	72	3	1.7
ZPR13U	13	15	12	21	29.9	46	20	67	25	72	3	1.8
ZPR16U	16	18	12.5	21.5	30.4	46.5	20	67.5	25	72	3.5	1.2

DEEP TYPE

Model	ØA	ØB	C	D	E	F	I: M5X0.8		I: M6X1		Y
							G	H	G	H	
ZPR10D	10	12	15	24	32.9	49	20	70	25	75	6
ZPR16D	16	18	16	25	33.9	50	20	71	25	76	7

APPLICABLE TUBE

Applicable Tube O.D.	ØP	Q	R	ØS
Ø4	4	20.6	15.6	10.4
Ø6	6	21.6	16.6	12.8

MORE DIMENSIONS

SEE NEXT PAGE

HOW TO

ORDER

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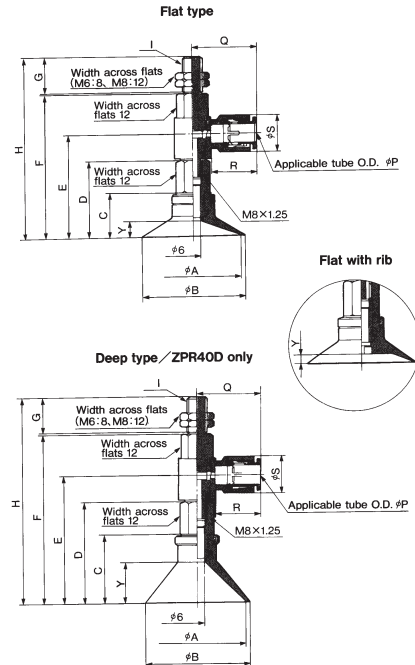
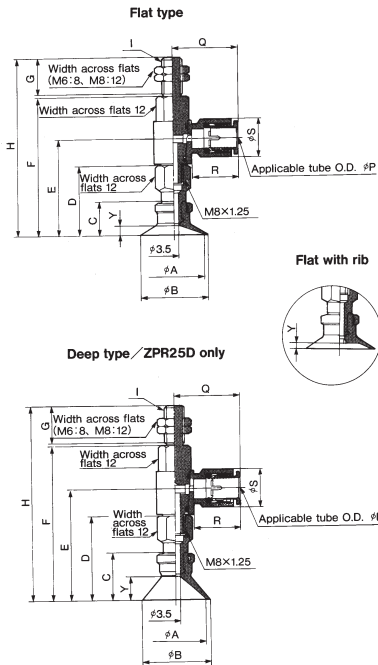
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DIMENSIONS

PAD DIAMETERS Ø20, Ø25, Ø32

DIMENSIONS

PAD DIAMETERS Ø40, Ø50



FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	C	D	E	F	I: M6X1		I: M8X1		Y	
							G	H	G	H	Flat	Flat with rib
ZPR20 ^U	20	23	14	29	39.8	57.6	25	83.5	15	73.5	4	1.7
ZPR25 ^U	25	28	14	29	39.8	57.6	25	83.5	15	73.5	4	1.8
ZPR32 ^U	32	35	14.5	29.5	40.3	58.1	25	84	15	74	4.5	2.3

DEEP TYPE

Model	ØA	ØB	C	D	E	F	I: M6X1		I: M8X1		Y
							G	H	G	H	
ZPR25D	25	28	20	35	48.5	63.6	25	89.5	15	79.5	10

APPLICABLE TUBE

Applicable Tube O.D.	ØP	Q	R	ØS
Ø4	4	23.3	15.8	10.4
Ø6	6	24.3	16.8	12.8
Ø8	8	26.2	18.7	15.2

FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	C	D	E	F	I: M6X1		I: M8X1		Y	
							G	H	G	H	Flat	Flat with rib
ZPR40 ^U	40	43	18.5	32	42.8	60.6	25	86.5	15	76.5	6.5	3.3
ZPR50 ^U	50	53	19.5	33	43.8	61.6	25	87.5	15	77.5	7.5	3.8

DEEP TYPE

Model	ØA	ØB	C	D	E	F	I: M6X1		I: M8X1		Y
							G	H	G	H	
ZPR40D	40	43	29	42.5	53.3	71.1	25	97	15	87	17

APPLICABLE TUBE

Applicable Tube O.D.	ØP	Q	R	ØS
Ø6	6	24.3	16.8	12.8
Ø8	8	26.2	18.7	15.2

How To
ORDER

ZPR PAD HORIZONTAL TYPE WITHOUT BUFFER



PAD DIAMETER

02 ...Ø2
04 ...Ø4
06 ...Ø6
08 ...Ø8
10 ...Ø10
13 ...Ø13
16 ...Ø16
20 ...Ø20
25 ...Ø25
32 ...Ø32
40 ...Ø40
50 ...Ø50

PAD TYPE

UFlat
CFlat with Rib (Not ø2,4,6,8)
DDeep (ø10,16,25,40)
BBellows (Not ø2,4)

PAD MATERIAL

NNitrile rubber -black
(standard)
SSilicon rubber -white
UUrethane-brown
FFluorine rubber-black+mark
GN ...Anti-static Nitrile rubber
GS ...Anti-static Siliconrubber

VACUUM PAD - MOUNTING

	Symbol	Thread dia.	Ø2-Ø8	Ø10-Ø16	Ø20-Ø32	Ø40-Ø50
Male thread	A5	M5X0.8	•	•		
	A6	M6X1	•	•	•	•
	A8	M8X1			•	•

(Ask SMC Regional Offices for female thread versions also available)

VACUUM ENTRY

	Symbol	Port size	Ø2-Ø8	Ø10-Ø16	Ø20-Ø32	Ø40-Ø50
One-touch tube fitting	04	Ø4 tube	•	•	•	
	06	Ø6 tube	•	•	•	•
	08	Ø8 tube			•	•

STOCKED PRODUCTS

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ZPR ○ ○ ○ ○ — ○ — ○

VACUUM ENTRY-MOUNTING

- VACUUM ENTRY- BUFFER

STOCKED PRODUCTS
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PAD DIAMETERS Ø2, Ø4, Ø6, Ø8



FLAT TYPE

APPLICABLE TUBE

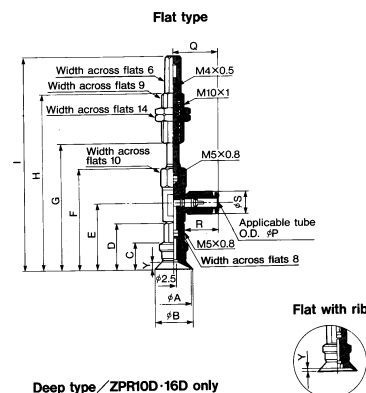
Applicable Tube O.D.	ØE
Ø4	10.4
Ø6	12.8

MORE DIMENSIONS
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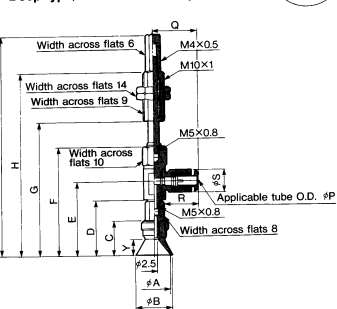


DIMENSIONS

PAD DIAMETERS Ø10, Ø13, Ø16



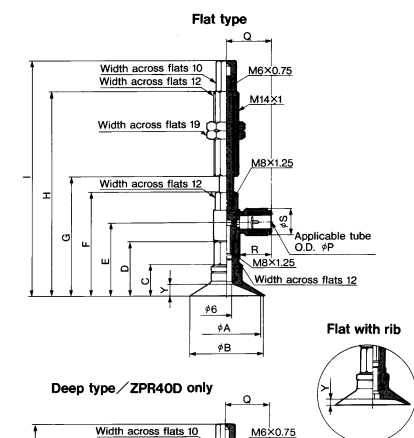
Flat type



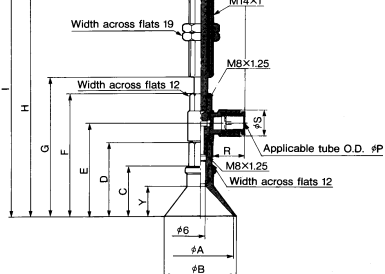
Deep type / ZPR10D-16D only

DIMENSIONS

PAD DIAMETERS Ø40, Ø50



Flat type



Deep type / ZPR40D only

FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	C	D	E	F	G	H	I	Y	
										Flat	Flat with rib
ZPR10 _U	10	12	12	21	29.9	46	57	80	91	3	1.7
ZPR13 _U	13	15	12	21	29.9	46	57	80	91	3	1.8
ZPR16 _U	16	18	12.5	21.5	30.4	46.5	57.5	80.5	91.5	3.5	1.2

DEEP TYPE

Model	A	ØB	C	D	E	F	G	H	I	Y
ZPR10D	10	12	15	24	32.9	49	60	83	94	6
ZPR16D	16	18	16	25	33.9	50	61	84	95	7

APPLICABLE TUBE

Applicable Tube O.D.	ØP	Q	R	ØS
Ø4	4	20.6	15.6	10.4
Ø6	6	21.6	16.6	12.8

FLAT TYPE - FLAT WITH RIB

Model	A	ØB	C	D	E	F	G	H	I	Y	
										Flat	Flat with Rib
ZPR20	20	23	14	29	39.8	57.6	68.6	91.5	102.6	4	1.7
ZPR25	25	28	14	29	39.8	57.6	68.6	91.5	102.6	4	1.8
ZPR32	32	35	14.5	29.5	40.3	58.1	69.1	92	103.1	4.5	2.3

DEEP TYPE

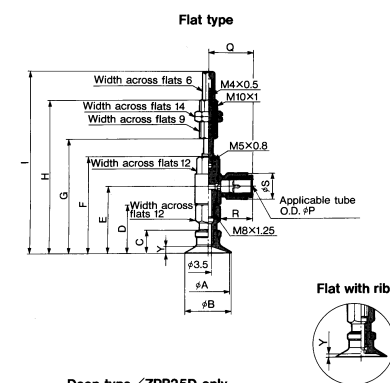
Model	ØA	ØB	C	D	E	F	G	H	I	Y
ZPR25D	25	28	20	35	45.8	63.6	74.6	97.6	108.6	10

APPLICABLE TUBE

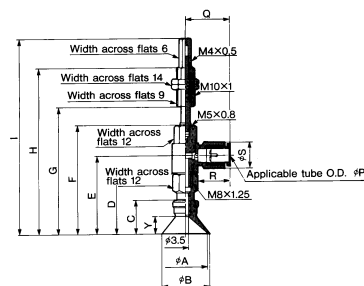
Applicable Tube O.D.	ØP	Q	R	ØS
Ø4	4	23.3	15.8	10.4
Ø6	6	24.3	16.8	12.8
Ø8	8	26.2	18.7	15.2

DIMENSIONS

PAD DIAMETERS Ø20, Ø25, Ø32



Flat type



Deep type / ZPR25D only

FLAT TYPE - FLAT WITH RIB

Model	ØA	ØB	C	D	E	F	G	H	I	Y	
										Flat	Flat with Rib
ZPR40 _U	40	43	18.5	32	42.8	60.6	72.6	122.6	140.6	6.5	3.3
ZPR50 _U	50	53	19.5	33	43.8	61.6	73.6	123.6	141.6	7.5	3.8

DEEP TYPE

Model	ØA	ØB	C	D	E	F	G	H	I	Y
ZPR40D	40	43	29	42.5	53.3	71.1	81.1	133.1	151.1	17

APPLICABLE TUBE

Applicable Tube O.D.	ØP	Q	R	ØS
Ø6	6	24.3	16.8	12.8
Ø8	8	26.2	18.7	15.2



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DETAILS ON THIS
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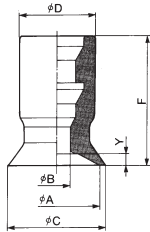
ZP SERIES VACUUM PADS

- ✓ 288 standard options
- ✓ 12 diameters
- ✓ 4 types
- ✓ 6 materials

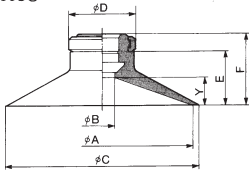


DIMENSIONS
ZP VACUUM PADS

ZP02U○~08U○



ZP10U○~50U○

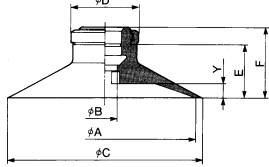


FLAT TYPE PAD

Part No.	Type	ØA	ØC	ØB	D	E	F	Y
ZP02U•	U02	2	2.6	1.2	7	-	12	0.8
ZP04U•	U04	4	4.8	1.6	7	-	12	0.8
ZP06U•	U06	6	7	2.5	7	-	12	0.8
ZP08U•	U08	8	9	2.5	7	-	12	1
ZP10U•	U10	10	12	4	13	7.7	12	3
ZP13U•	U13	13	15	4	13	7.7	12	3
ZP16U•	U16	16	18	4	13	8.2	12.5	3.5
ZP20U•	U20	20	23	4	15	9.5	14	4
ZP25U•	U25	25	28	4	15	9.5	14	4
ZP32U•	U32	32	35	4	15	10	14.5	4.5
ZP40U•	U40	40	43	7	18	13.7	18.5	6.5
ZP50U•	U50	50	53	7	18	14.7	19.5	7.5

DIMENSIONS
ZP VACUUM PADS

ZP10C○~50C○

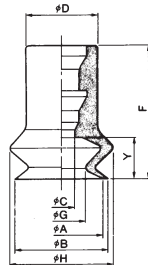


FLAT TYPE PAD WITH RIB

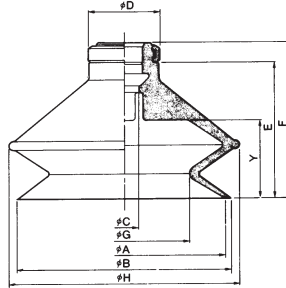
Part No.	Type	ØA	ØC	ØB	ØD	E	F	Y
ZP10C•	C10	10	12	4	13	7.7	12	1.7
ZP13C•	C13	13	15	4	13	7.7	12	1.8
ZP16C•	C16	16	18	4	13	8.2	12.5	1.2
ZP20C•	C20	20	23	4	15	9.5	14	1.7
ZP25C•	C25	25	28	4	15	9.5	14	1.8
ZP32C•	C32	32	35	4	15	10	14.5	2.3
ZP40C•	C40	40	43	7	18	13.7	18.5	3.3
ZP50C•	C50	50	53	7	18	14.7	19.5	3.3

DIMENSIONS
ZP VACUUM PADS

φ6~φ8
ZP06B□~08B□



φ10~φ50
ZP10B□~50B□

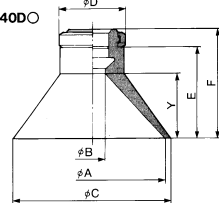


BELLOWS TYPE PAD

Part No.	Type	ØA	ØB	ØC	ØD	E	F	ØG	ØH	Y
ZP06B	B06	6	7	2.5	7	-	13	3.3	9.1	4
ZP08B	B08	8	9	2.5	7	-	13	4.7	10.1	4
ZP10B	B10	10	12	4	13	11.7	16	5.5	13.8	5.5
ZP13B	B13	13	15	4	13	14.2	18.5	8.7	19	7.5
ZP16B	B16	16	18	4	13	15.7	20	9.9	21	8.5
ZP20B	B20	20	22	4	15	19	23.5	12.4	25	10.5
ZP25B	B25	25	27	4	15	19.5	24	15.6	28	10.5
ZP32B	B32	32	34	4	15	24.5	29	18.9	37	14
ZP40B	B40	40	43	7	18	29.2	34	24.4	48	16
ZP50B	B50	50	53	7	18	33.2	38	32.4	57	19

DIMENSIONS
ZP VACUUM PADS

ZP10D○~40D○



DEEP TYPE PAD

Part No.	Type	G	ØC	ØB	ØD	E	F	Y
ZP10D•	D10	10	12	4	13	10.7	15	6
ZP16D•	D16	16	18	4	13	11.7	16	7
ZP25D•	D25	25	28	4	15	15.5	20	10
ZP40D•	D40	40	43	7	18	24.2	29	17

HOW TO
ORDER
ZP VACUUM PADS

ZP

PAD DIAMETER

02 ...Ø2
04 ...Ø4
06 ...Ø6
08 ...Ø8
10 ...Ø10
13 ...Ø13
16 ...Ø16
20 ...Ø20
25 ...Ø25
32 ...Ø32
40 ...Ø40
50 ...Ø50

PAD MATERIAL

NNitrile rubber (standard)
SSilicon rubber
UUrethane
FFluorine rubber
GN ...Anti-static Nitrile rubber
GS ...Anti-static Silicon rubber

PAD TYPE

UFlat
CFlat with Rib (Not ø2,4,6,8)
DDeep (ø10,16,25,40)
BBellows (Not ø2,4)

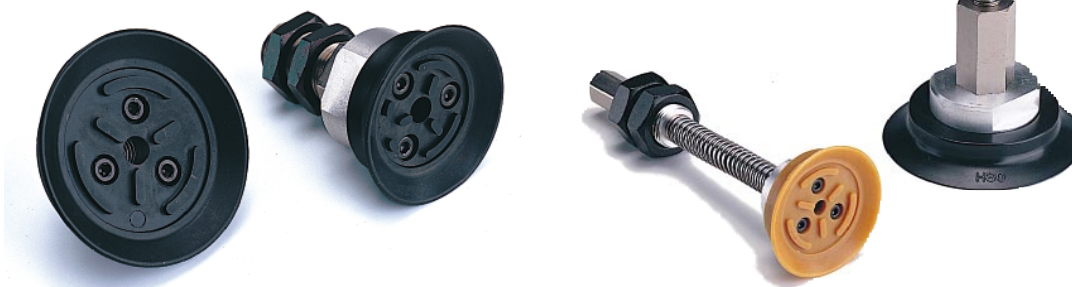
STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

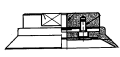
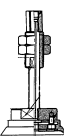
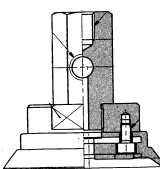
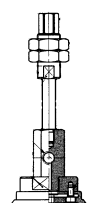
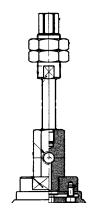


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HEAVY DUTY VACUUM PADS SERIES ZPT/ZPX

- ✓ Wide range of materials: NBR, Silicon, Fluorine, Urethane, EPM
- ✓ Heavy duty range of sizes from Ø40 ~ Ø125
- ✓ Choice of mounting styles - horizontal or axial vacuum entry
- ✓ Optional spring loaded buffer
- ✓ 4 choices of buffer stroke
- ✓ Bellows option



	Standard Type (Without Buffer)		Buffer Mount Type
ZPT Axial Vacuum Entry			
	Male thread Mounting. Female thread Vacuum Entry	Common Female Vacuum Entry and Mounting	Male thread Buffer Mounting Female thread Vacuum Entry
ZPX Horizontal Vacuum Entry			
	Female thread Mounting Female thread Vacuum Entry	Male thread Buffer Mounting Female Thread Vacuum Entry	

MODELS ZPT/ZPX

Buffer Stroke	Ø Pad	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125
25		•	•	•	•	•	•
50		•	•	•	•	•	•
75		•	•	•	•	•	•
100		-	-	-	-	•	•

PAD MATERIALS & SPECIFICATIONS

◎: Little or no influence ○: Good performance, subject to conditions ✕: Not compatible

Material	Item	Hardness HS (±5°)	Temperature range °C	Oil resistance (Gasoline)	Oil resistance (Benzol)	Alkali resistance	Acid resistance	Weatherability	Ozone resistance	Abrasion resistance	Waterproof	Solvent resistance (benzene, toluene)
NBR		50°	0 to 120	◎	✕	○	○	✕	✕	◎	○	✕
Silicon rubber		50°	-30 to 250	✕	✕	○	✕	◎	◎	✕	○	✕
Urethane rubber		60°	0 to 60	◎	✕	✕	✕	◎	◎	◎	✕	✕
Fluoro rubber		60°	0 to 250	◎	◎	✕	◎	◎	◎	○	◎	◎
EPR		50°	-20 to 150	✕	✕	◎	○	◎	◎	○	◎	✕

The above table covers only general characteristics of subject rubber materials.

Pad materials used by SMC pass nominal JIS material standards; however, actual performance depends on operating conditions.



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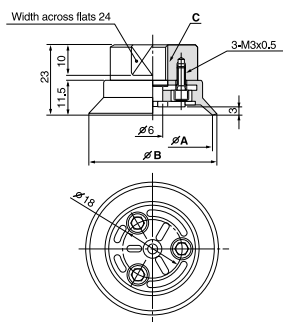


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DIMENSIONS



ZPT $\frac{40}{50}$ H $\frac{8}{10}$ -B₁₀ (Female thread)



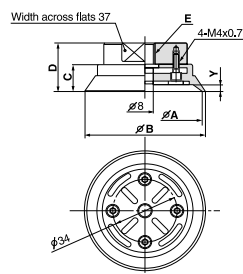
Model	ØA	ØB
ZPT40H -A14	40	42
ZPT50H -A14	50	52

Model	ØA	ØB	C
ZPT40H -B8	40	42	M8x1,25
ZPT40H -B10	40	42	M10x1,5
ZPT50H -B8	50	52	M8x1,25
ZPT50H -B10	50	52	M10x1,5

SPECIFICATIONS

Vacuum entry	Entry		Vertical type	
	Connection		Male thread	Female thread
	Thread dia.	ø40, ø50	M14x1	M8x1.25, M10x1.5
		ø63, ø80	M16x1.5	M8x1.25, M10x1.5, M12x1.75, M16x1.5
		ø100, ø125	M16x1.5	M12x1.75, M16x1.5
	Mounting		Rc(PT)1/8	Use connection for vacuum entry

ZPT $\frac{63}{80}$ H $\frac{1}{2}$ -B $\frac{1}{2}$ (Female thread)



Model	$\varnothing A$	$\varnothing B$	C	D	E	Y
ZPT63H -A16	63	65	14.5	26	56	3.5
ZPT80H -A16	80	82	16.5	28	58	4.5

Model	$\#A$	$\#B$	C	D	E	mm
ZPT63H -B8	63	65	14.5	26	M8x1.25	3.5
ZPT63H -B10	63	65	14.5	26	M10x1.5	3.5
ZPT63H -B12	63	65	14.5	26	M12x1.75	3.5
ZPT63H -B16	63	65	14.5	26	M16x1.5	3.5
ZPT80H -B8	80	82	16.5	28	M8x1.25	4.5
ZPT80H -B10	80	82	16.5	28	M10x1.5	4.5
ZPT80H -B12	80	82	16.5	28	M12x1.75	4.5
ZPT80H -B16	80	82	16.5	28	M16x1.5	4.5

PAD TYPE

Pad dia. (mm)	ø40, ø50, ø63, ø80, ø100, ø125
Material (Color)	NBR(Black), Silicon rubber(White), Urethane rubber(Brown) Fluoro rubber(Black with mark(E)), EPR(Black with mark(E))
Hardness	NBR:Silicon rubber:EPR:50° Urethane rubber:Fluoro rubber:60°

How To Order

ZPT ○ H ○ — ○

PAD DIA. (MM)

```

40 ...Ø40
50 ...Ø50
63 ...Ø63
80 ...Ø80
100 ...Ø100
125 ...Ø125

```

PAD TYPE

HHeavy Duty Pad
HB ...Heavy Duty Large
Type Bellows Pad

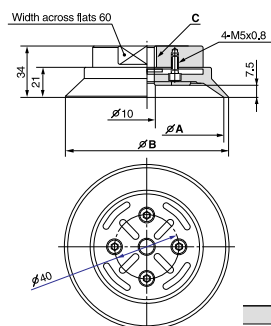
MATERIAL

NNBR
SSilicon rubber
UUrethane rubber
FFluoro rubber
EEPR

VACUUM ENTRY MOUNTING THREAD

A14 ... M14x1
A16 ... M16x1.5
B8 ... M8x1.25
B10 ... M10x1.5
B12 ... M12x1.75
B16 ... M16x1.5

ZPT¹⁰⁰₁₂₅ H -B¹²₁₆ (Female thread)



	mm	
Model	∅A	∅B
ZPT100H -A16	100	103
ZPT125H -A16	125	128

Model	ØA	ØB	C
ZPT100H -B12	100	103	M12x1.75
ZPT100H -B16	100	103	M16x1.5
ZPT125H -B12	125	128	M12x1.75
ZPT125H -B16	125	128	M16x1.5



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HORIZONTAL VACUUM ENTRY:
WITHOUT BUFFER



SPECIFICATIONS

Vacuum entry	Entry		Horizontal	
	Connection		Female thread	
	Thread dia.	ø40, ø50	M8x1.25, M10x1.5	
		ø63, ø80	M10x1.5, M12x1.75	
		ø100, ø125	M10x1.5, M12x1.75	
Mounting		Rc(PT)1/8		

PAD TYPES

Pad dia. (mm)	Ø40, Ø50, Ø63, Ø80, Ø100, Ø125
Material (Color)	NBR(Black), Silicon rubber(White), Urethane rubber(Brown), Fluoro rubber(Black with mark (F)), EPR(Black with mark (E))
Hardness	NBR,Silicon rubber,EPR:50° Urethane rubber,Fluoro rubber:60°

HOW TO
ORDER

ZPX

●

H

●

—

B01

—

●

PAD DIA. (MM)

40 ...Ø40

50 ...Ø50

63 ...Ø63

80 ...Ø80

100 ...Ø100

125 ...Ø125

PAD TYPE

HHeavy Duty Pad

HB ...Heavy Duty Large Type Bellows Pad

MOUNTING THREAD

B8 ...M8x1.25 (Ø40, Ø50)

B10 ...M10x1.5 (Ø63 to Ø125)

B12 ...M12x1.75 (Ø63 to Ø125)

VACUUM ENTRY

B01 ...Rc(PT)1/8

MATERIAL

NNBR

SSilicon rubber

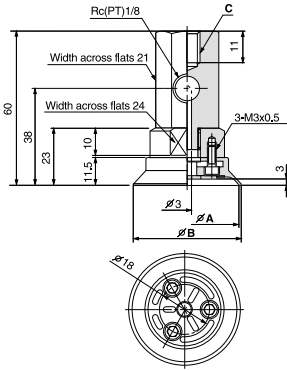
UUrethane rubber

FFluoro rubber

EEPR

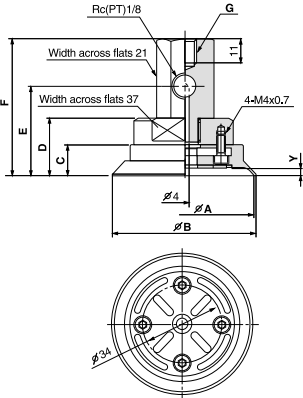
DIMENSIONS

ZPX 40 50 H -B01-B10 (Female thread)



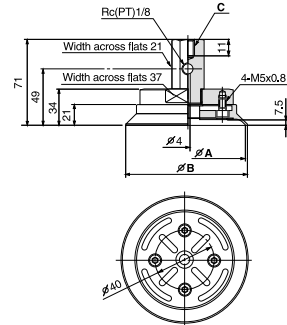
Model	ØA	ØB	C
ZPX40H -B01-B8	40	42	M8x1.25
ZPX40H -B01-B10	40	42	M10x1.5
ZPX50H -B01-B8	50	52	M8x1.25
ZPX50H -B01-B10	50	52	M10x1.5

ZPX 63 80 H -B01-B12 (Female thread)



Model	ØA	ØB	C	D	E	F	Y	G
ZPX63H -B01-B10	63	65	14.5	26	41	63	3.5	M10x1.5
ZPX63H -B01-B12	63	65	14.5	26	41	63	3.5	M12x1.75
ZPX80H -B01-B10	80	82	16.5	28	43	65	4.5	M10x1.5
ZPX80H -B01-B12	80	82	16.5	28	43	65	4.5	M12x1.75

ZPX 100 125 H -B01-B12 (Female thread)



Model	ØA	ØB	C
ZPX100H -B01-B10	100	103	M10x1.5
ZPX100H -B01-B12	100	103	M12x1.75
ZPX125H -B01-B10	125	128	M10x1.5
ZPX125H -B01-B12	125	128	M12x1.75

REPLACEABLE PARTS:
PAD UNITS

HOW TO
ORDER

ZP

H

PAD DIA. (MM)

40 ...Ø40
50 ...Ø50
63 ...Ø63
80 ...Ø80
100 ...Ø100
125 ...Ø125

MATERIAL

NNBR
SSilicon rubber
UUrethane rubber
FFluoro rubber
EEPR

PAD TYPE

HHeavy Duty Pad
HB ...Heavy Duty Large
Type Bellows Pad

TECHNICAL
SPECIFICATIONS
WEIGHT TABLE

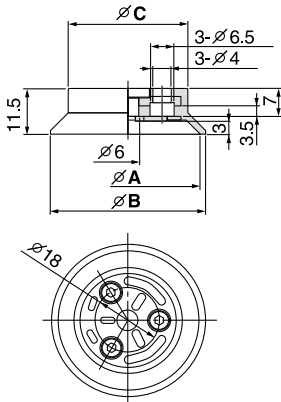
NBR		Other materials (g)				
Part number	Weight (g)	Pad dia.	Silicon	Urethan	Fluoro	EPR
ZP40HN	15	Ø40	-1	0	5	-1
ZP50HN	27	Ø50	-1	0	8	0
ZP63HN	57	Ø63	-2	0	16	0
ZP80HN	86	Ø80	-3	1	27	-1
ZP100HN	160	Ø100	-5	1	53	-1
ZP125HN	224	Ø125	-8	3	84	0

*Add NBR weight to the above table for other material.

Contact SMC Regional offices for details of Bellows Pads

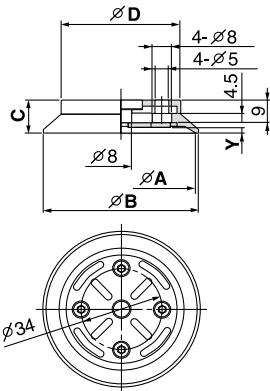
DIMENSIONS

ZP 40 50 H



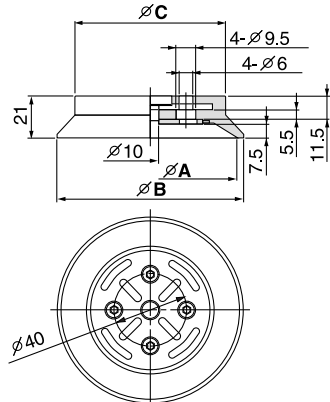
Model	ØA	ØB	ØC
ZP40H	40	42	32
ZP50H	50	52	42

ZP 63 80 H



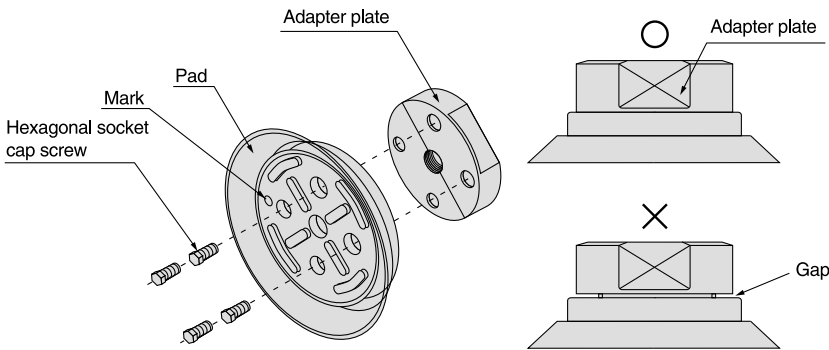
Model	ØA	ØB	C	D	Y
ZP63H	63	65	14.5	54	3.5
ZP80H	80	82	16.5	68	4.5

ZP 100 125 H



Model	ØA	ØB	ØC
ZP100H	100	103	80
ZP125H	125	128	104

How to Assemble/Disassemble



Remove bolts with a hex. key wrench from the pad underside.
Tighten new pad with the bolts ensuring there is no gap between the adapter plate and the pad.

How to Distinguish Different Pad Materials

Check the mark on the pad's interior surface as shown in the figure on the left.

Material	Color	Mark
NBR	Black	—
Silicon rubber	White	—
Urethane rubber	Brown	—
Fluoro rubber	Black	ⓕ
EPR	Black	ⓔ



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