

Replacement Parts: Pad Unit (With lock ring/Without lock ring)
How to Order Pad Unit
ZP 10 U N X19

Pad dia. (mm)

02	ø2
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50

Lock ring

Nil	With lock ring
-X19	Without lock ring (ø10 or larger)

Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
GN*	Conductive NBR (ø2 to ø16)
GS*	Conductive silicon rubber (ø2 to ø16)

* ø20 or large are manufactured upon receipt of order.

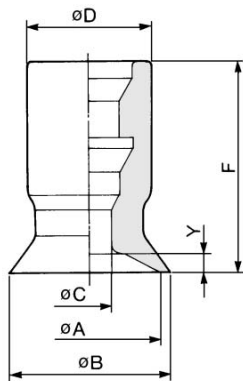
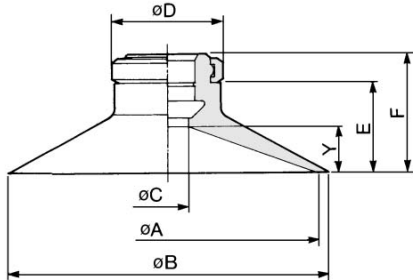
Pad type

U	Flat
C	Flat with ribs
D	Deep
B	Bellows

How to Order Lock Ring Unit
ZPL 1

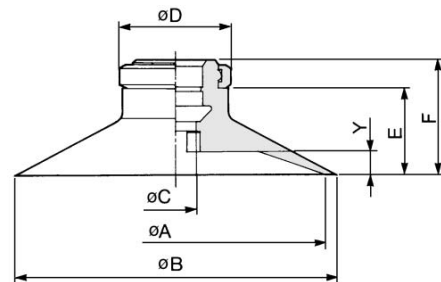
Applicable pad dia. (mm)

1	ø10 to ø16
2	ø20 to ø32
3	ø40, ø50

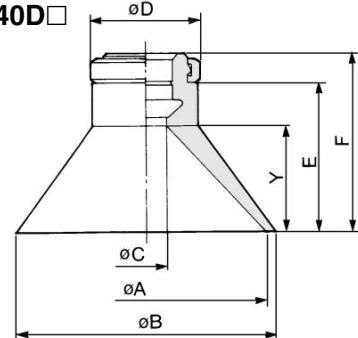
Flat (U)
ZP02U□ to 08U□

ZP10U□ to 50U□


Model	Size	øA	øB	øC	øD	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

* Put in the symbol for material at the end of model no.

Flat with ribs (C)
ZP10C□ to 50C□


Model	Size	øA	øB	øC	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	3.8

Deep (D)
ZP10D□ to 40D□


Model	Size	øA	øB	øC	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

ZX

ZR

ZM

ZH

ZU

ZL

ZY

ZQ

ZF

ZP

ZCU

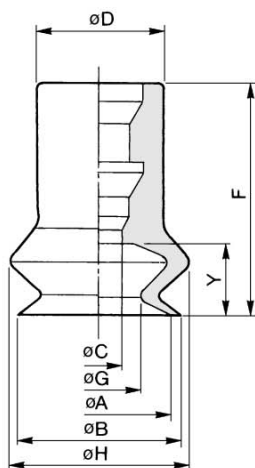
AMJ

Misc.

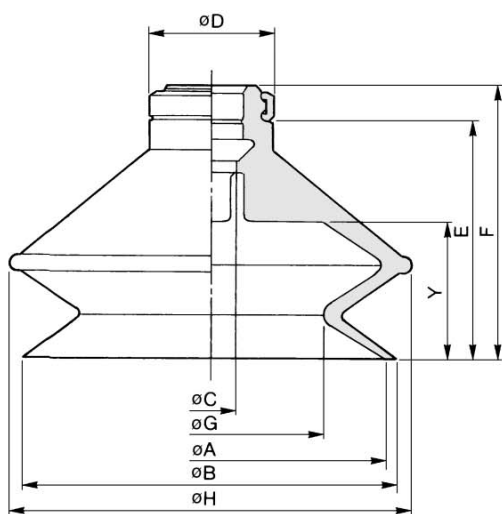
Replacement Parts: Pad Unit (With lock ring/Without lock ring)

Bellows (B)/With Lock Ring

Pad diameter: $\phi 6$ to $\phi 8$
ZP06B□ to 08B□



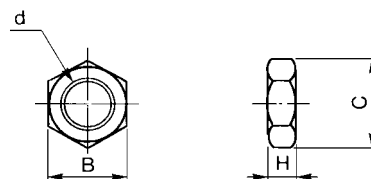
Pad diameter: $\phi 10$ to $\phi 50$
ZP10B□ to 50B□



Model	Size	ϕA	ϕB	ϕC	ϕD	E	F	ϕG	ϕH	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

* Put in the symbol for material at the end of model no.

Buffer Mounting Nut



Model	d	H	B	C
NTJ-015A	M5 x 0.8	4	8	9.2
SNJ-006A	M6 x 1	3	8	9.2
SNJ-010A	M8 x 1	3	12	13.9
SNJ-015A	M10 x 1	3	14	16.2
SN-015A	M14 x 1	5	19	21.9

Replacement Parts: Pad Unit (With lock ring/Without lock ring)

How to Order/Pad Unit

Thin flat (UT), Thin flat with ribs (CT)

ZP **10** **UT** **N**

Pad diameter ●

10	ø10
13	ø13
16	ø16

Pad type ●

UT	Thin flat
CT	Thin flat with ribs

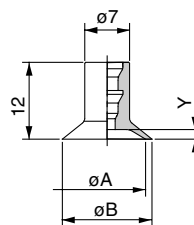
● Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
GN	Conductive NBR
GS	Conductive silicon rubber

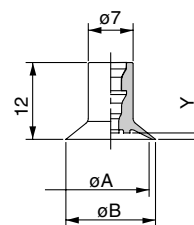
Dimensions

Thin flat

Thin flat with ribs



ZP□□UT□□



ZP□□CT□□

Dimensions

(mm)

Model	A	B	Y
ZP10UT□□	10	11	1
ZP13UT□□	13	14	1.5
ZP16UT□□	16	17	1.5

Dimensions

(mm)

Model	A	B	Y
ZP10CT□□	10	11	0.8
ZP13CT□□	13	14	1
ZP16CT□□	16	17	1

Elliptic

ZP **2004** **U** **N**

Pad diameter ●

2004	2 x 4 (Breadth x Length)
3507	3.5 x 7
4010	4 x 10

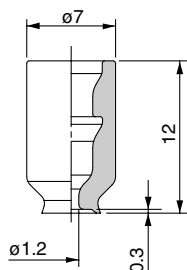
Pad type ●

U	Flat
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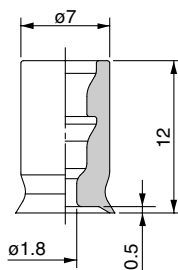
● Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
GN	Conductive NBR
GS	Conductive silicon rubber

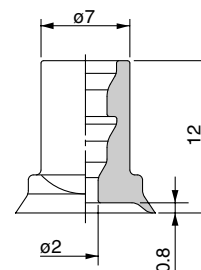
Dimensions



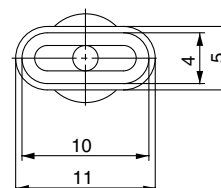
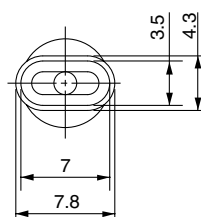
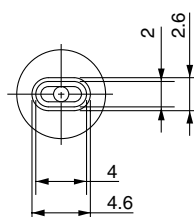
ZP2004U□□



ZP3507U□□



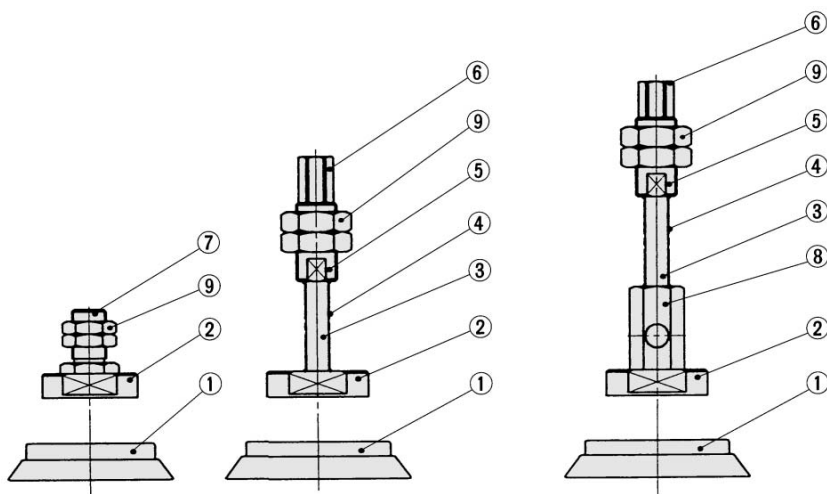
ZP4010U□□



Construction

Series ZPT

Series ZPX



Component Parts

No.	Description	Material	Surface treatment
①	Pad	NBR, Silicone rubber, Urethane rubber, Fluoro rubber, EPR	—
②	Adapter plate	Aluminum	—
③	Piston rod	Carbon steel	Hard chrome plated
④	Spring	Stainless steel	—
⑤	Buffer body	Aluminum	—
⑥	Buffer adaptor	Brass	Electroless nickel plated
⑦	Adaptor A	Brass	Electroless nickel plated
⑧	X type adaptor	Brass	Electroless nickel plated
⑨	Mounting nut	Rolled steel	Black zinc chromated

Replacement Parts/Pad Unit

How to Order Pad Unit

ZP	40	H	N	
Pad dia. (mm)			Material	
40	ø40		N	NBR
50	ø50		S	Silicon rubber
63	ø63		U	Urethane rubber
80	ø80		F	Fluoro rubber
100	ø100		E	EPR
125	ø125			
		Pad type		
		H		Heavy duty

Pad Unit Weight

(NBR)

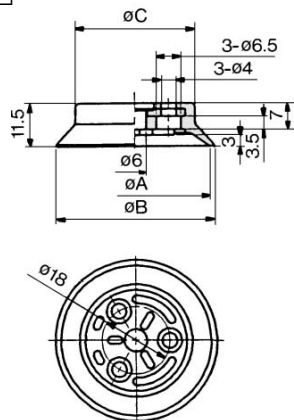
Model	Weight (g)
ZP40HN	15
ZP50HN	27
ZP63HN	57
ZP80HN	86
ZP100HN	160
ZP125HN	224

Add NBR weight to the table on the right for other materials.

Pad dia.	Silicon rubber	Urethane rubber	Fluoro rubber	EPR
ø40	-1	0	5	-1
ø50	-1	0	8	0
ø63	-2	0	16	0
ø80	-3	1	27	-1
ø100	-5	1	53	-1
ø125	-8	3	84	0

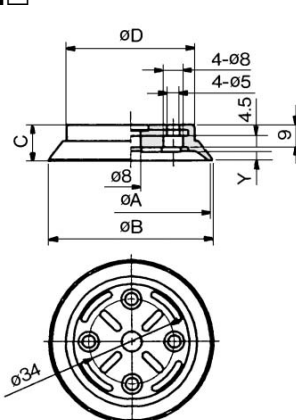
Dimensions

ZP⁴⁰₅₀H□



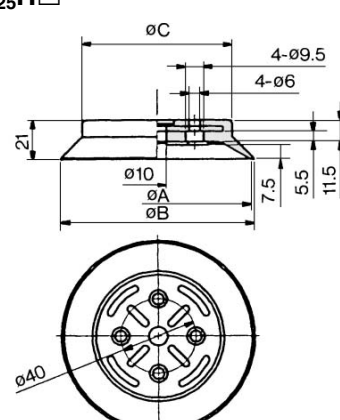
Model	øA	øB	øC
ZP40H□	40	42	32
ZP50H□	50	52	42

ZP⁶³₈₀H□



Model	øA	øB	C	D	Y
ZP63H□	63	65	14.5	50	3.5
ZP80H□	80	82	16.5	61	4.5

ZP¹⁰⁰₁₂₅H□



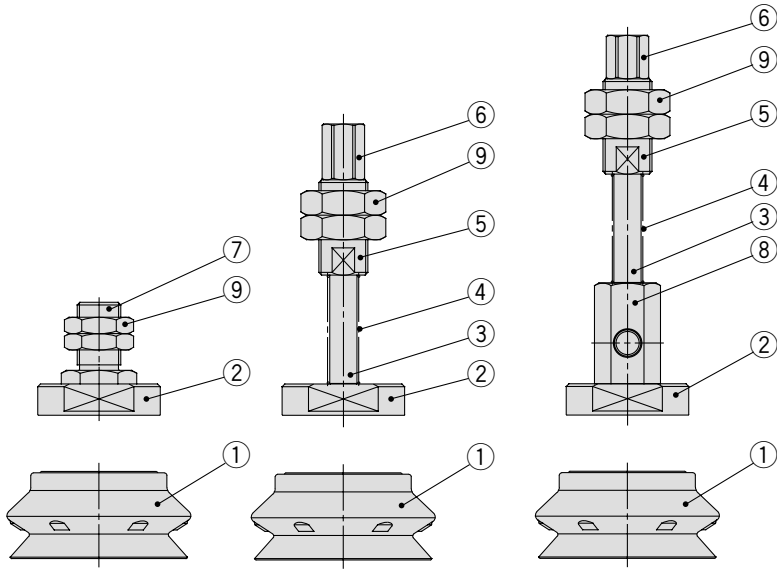
Model	øA	øB	øC
ZP100H□	100	103	80
ZP125H□	125	128	104

Vacuum Pad: Large Size Bellows Type Vertical Vacuum Entry with Buffer **Series ZPT/ZPX**

Construction

Series ZPT

Series ZPX



Component Parts

No.	Description	Material	Surface treatment
①	Pad	NBR, Silicone rubber, Urethane rubber, Fluoro rubber, EPR	—
②	Adapter plate	Aluminum	—
③	Piston rod	Carbon steel	Hard chrome plated
④	Spring	Stainless steel	—
⑤	Buffer body	Aluminum	—
⑥	Buffer adaptor	Brass	Electroless nickel plated
⑦	Adaptor A	Brass	Electroless nickel plated
⑧	X type adaptor	Brass	Electroless nickel plated
⑨	Mounting nut	Rolled steel	Black zinc chromated

Replacement Parts/Pad Unit

How to Order

ZP 40 HB N

Pad diameter (mm)

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

Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
E	EPR

Pad type
HB Large bellows pad

Weight

(g)

NBR

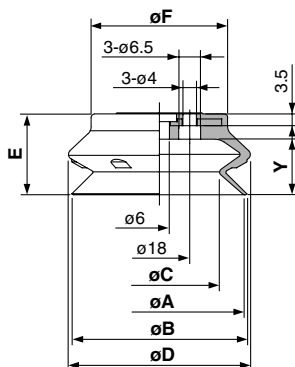
Model	Weight
ZP 40HBN	17
ZP 50HBN	33
ZP 63HBN	63
ZP 80HBN	103
ZP100HBN	206
ZP125HBN	390

Add NBR weight to below table for other materials.

Pad dia.	Silicon rubber	Urethane rubber	Fluoro rubber	EPR
ø40	-1	+1	+10	0
ø50	-2	+1	+19	0
ø63	-3	+2	+37	0
ø80	-6	+2	+61	0
ø100	-12	+4	+121	-1
ø125	-22	+7	+228	-3

Dimensions

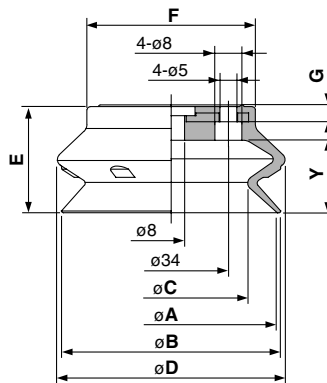
ZP₅₀⁴⁰HB□



Dimensions (mm)

Model	A	B	C	D	E	F	Y
ZP40HB□	40	41.4	28.4	43.2	20.5	30	13
ZP50HB□	50	51.9	35.7	54	24	40.5	16.5

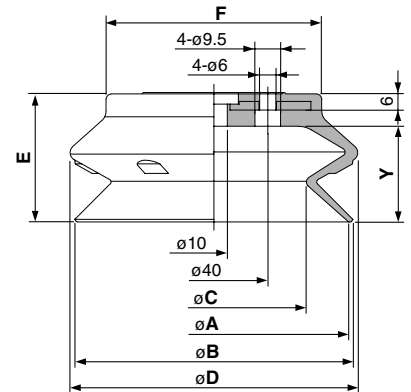
ZP₈₀⁶³HB□



Dimensions (mm)

Model	A	B	C	D	E	F	G	Y
ZP63HB□	63	65.1	45.5	67.6	31.5	50	4.5	21.5
ZP80HB□	80	83	58.4	85.1	37	64	5	27.5

ZP₁₂₅¹⁰⁰HB□



Dimensions (mm)

Model	A	B	C	D	E	F	Y
ZP100HB□	100	103.1	68.6	106.7	47.5	80	35.5
ZP125HB□	125	128.5	88.6	135	56	105	44

Series ZPT/ZPR

Replacement Parts

Pad, Individual Unit

How to Order

ZP 10 F GN

Pad diameter
(mm)

10	ø10
13	ø13
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50

Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
GN*	Conductive NBR
GS*	Conductive silicon rubber

* ø20 and larger are manufactured upon a receipt of order.

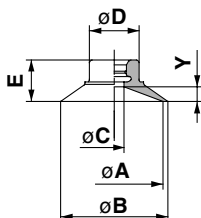
Pad type

F	Ball joint type
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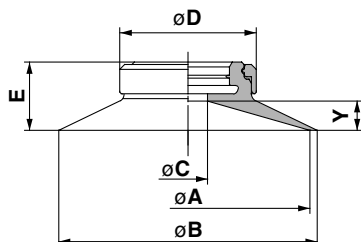
Note) Pads are exclusively ball joint type and are not interchangeable with other pads.

Dimensions

Ball joint type: ø10 to 32



Ball joint type: ø40, ø50



(mm)

Model	A	B	C	D	E	Y
ZP10F□□	10	12	3	8.2	6.5	1.5
ZP13F□□	13	15			7	2
ZP16F□□	16	18			7	2
ZP20F□□	20	22	4	10.2	8.5	3
ZP25F□□	25	28			9	
ZP32F□□	32	35			9	
ZP40F□□	40	43	10	28	13	5
ZP50F□□	50	53	8		14	6

Lock Ring, Individual Unit

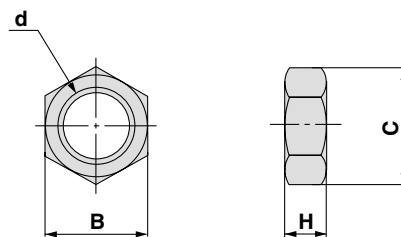
How to Order

ZPL F

For ball joint type
(ø40, ø50)

Mounting Nut

Dimensions



(mm)

Model	d	H	B	C
SNJ-015A	M10 x 1	3	14	16.2
SN-015A	M14 x 1	5	19	21.9
SNJ-010A	M8 x 1	3	12	13.9

ZX

ZR

ZM

ZH

ZU

ZL

ZY

ZQ

ZF

ZP

ZCU

AMJ

Misc.

Replacement Parts: Pad Unit (With lock ring/Without lock ring)

How to Order/Pad Unit

Thin flat (UT), Thin flat with ribs (CT)

ZP **10** **UT** **N**

Pad diameter ●

10	ø10
13	ø13
16	ø16

Pad type ●

UT	Thin flat
CT	Thin flat with ribs

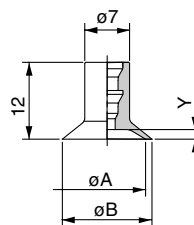
● Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
GN	Conductive NBR
GS	Conductive silicon rubber

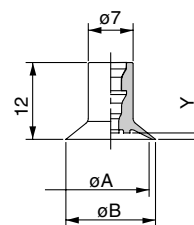
Dimensions

Thin flat

Thin flat with ribs



ZP□□UT□□



ZP□□CT□□

Dimensions

(mm)

Model	A	B	Y
ZP10UT□□	10	11	1
ZP13UT□□	13	14	1.5
ZP16UT□□	16	17	1.5

Dimensions

(mm)

Model	A	B	Y
ZP10CT□□	10	11	0.8
ZP13CT□□	13	14	1
ZP16CT□□	16	17	1

Elliptic

ZP **2004** **U** **N**

Pad diameter ●

2004	2 x 4 (Breadth x Length)
3507	3.5 x 7
4010	4 x 10

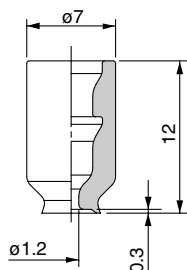
Pad type ●

U	Flat
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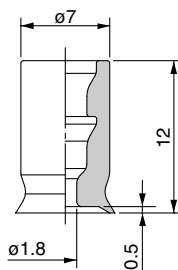
● Material

N	NBR
S	Silicon rubber
U	Urethane rubber
F	Fluoro rubber
GN	Conductive NBR
GS	Conductive silicon rubber

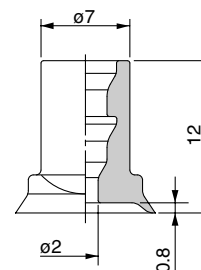
Dimensions



ZP2004U□□



ZP3507U□□



ZP4010U□□

