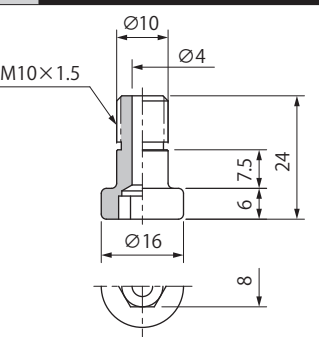
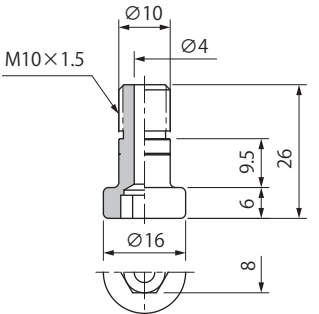
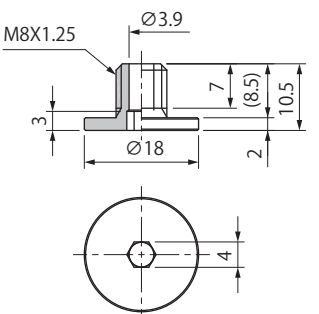
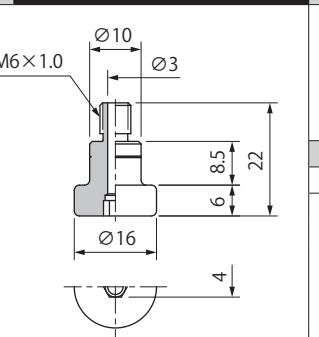


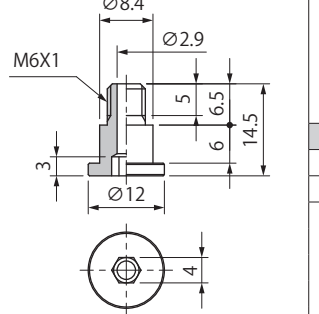
Setting screw

Model	TN-PK2-30-M10	Mass	14.4 g
			
			
Applicable suction cups			
PK2-30-T			
PK2-50-T			

Model	TN-PK2-40-M10	Mass	15.3 g
			
			
Applicable suction cups			
PK2-40-T			

Model	TN-PK2L-M8	Mass	5.7g
			
			
Applicable suction cups			
TN-PK2L-100x40-T			

Model	TN-PK2-40-M6	Mass	14.2 g
			
			
Applicable suction cups			
PK2-40-T			

Model	TN-PK2L-M6	Mass	4.5g
			
			
Applicable suction cups			
PK2L-60X20-T			
PK2L-80X30-T			

CONVUM
Myotoku Ltd.

<https://www.convum.co.jp/en/>

■ **Head office**
2-6-18 Shimomaruko, Ohta-ku, Tokyo 146-0092, Japan
TEL 81-3-3759-1491 FAX 81-3-5741-7020

■ **MYOTOKU CONVUM CHINA CO.,LTD.**
4/FC,16#Building,No.129 North Fute Road,China (Shanghai) Pilot free trade zone
TEL 86-21-52712075 FAX 86-21-52712073 Web: <http://www.convum.com.cn/>

■ **CONVUM KOREA Ltd.**
1204,KCC WELLTZ GASAN-DONG,GEUMCHEON-GU, 470-8 SEOUL,KOREA
TEL 82-2-6111-8007/8008/8009 FAX 82-2-6111-8006

■ **CONVUM(THAILAND) CO.,LTD.**
818/46 Udomsuk Road, Bangna-Nuea, Bangna, Bangkok 10260
TEL 66-2-769-5851 FAX 66-2-769-5853

■ **CONVUM USA,INC.**
18310 BEDFORD CIRCLE,LA PUENTE, CA 91744, USA
TEL 1-626-581-0297 FAX 1-626-581-0312

No. 8Z28

High durability ecology cup
(Flat type, Bellows type, Oval type)

CONVUM

PK2 PK2B PK2L
series

NEW

High
durability

Follows to
curved
surface

Anti-slip
Pattern

ECO
Light weight

Narrow
workpieces

Sakura Cup

RoHS

NEW High durability ecology cup
Flat type

PK2series

Sakura
Cup



The TPU material of these cups provides high durability which reduces man-hours and costs spent replacing suction cups in the field

TPU physical characteristics comparison

Type	NBR	TPU
Hardness(A/s)	55	85
Tensile strength TB(MPa)	13.5	46
Tear strength TR(N/mm)	34.8	95
Growth EB(%)	630	570
※1 Taber abrasion loss	241	24
※2 Wear resistant	△~○	◎
※2 Aging resistance	○	○
※2 Ozone resistance	×	◎
※2 Oil resistance	○	◎

※1.JIS K7311---wear ring :H-22, load 9.8N, rotational speed:1000 rotation
※2.It's a specifications excerpt of each company, not comparison of NBR and TPU.

Wear resistant 10 times longer than conventional material
(※10 times less than NBR on the list of
*1 Taper abrasion loss)

Oil resistance Excellent resistance against mineral oil,
vegetable oil

Weather resistance Excellent resistance against ozone,
long life circle

NEW High durability ecology cup
Bellows type

PK2Bseries



More flexible lip to follow curved surface than flat type

Suitable for handling a wide range of workpiece shapes



Flat type

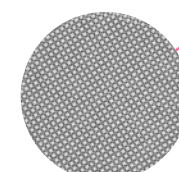


Bellows type

Follows to
curved
surface

Mesh filter to avoid getting foreign objects can be selected

Level is marked on the suction cup.



Mesh filter



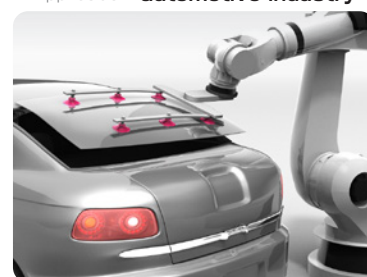
It instructs the height of suction cups as a guide

Filter to
prevent
foreign objects

The flexible lip of the PK2 series can follow a wide array of curved surfaces and objects



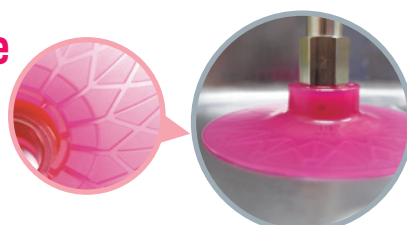
Application automotive industry



Due to high durability,
less replacement and running cost.

Patterned cup surface prevents sideslip on workpieces with an oily surface

- Sheet metal and other work pieces with the oily surface can be picked up and transported.
- Bellows type and oval type can be installed!



Application press industry



NEW High durability ecology cup
Oval type

PK2Lseries



Suitable for handling long and narrow workpiece shapes (Flame • Pipe, etc.)



Narrow
workpieces

40% lighter compared to PKMG series (NBR).

- Compatible with PKMG series.
- No need to separate rubbish as the cup is without metal shaft.
→Eco - friendly

40%

PK2

High durability ecology cup
Flat type

How to order

PK2 — 15 — T

①Cup diameter(mm)

Symbol	Cup diameter	Symbol	Cup diameter
10	φ 10	50	φ 50
15	φ 15	60	φ 60
20	φ 20	80	φ 80
25	φ 25	100	φ 100
30	φ 30	120	φ 120
40	φ 40	150	φ 150

Cup material
TPU

Cup material standard specifications

Symbol	Material	Hardness (A/s)	Ambient temperature(°C)	Color
T	TPU	85	-10 ~ 70	Semi-transparent pink

※ Material of insert for more than φ 60 cup diameters is PA

Cup standard specifications

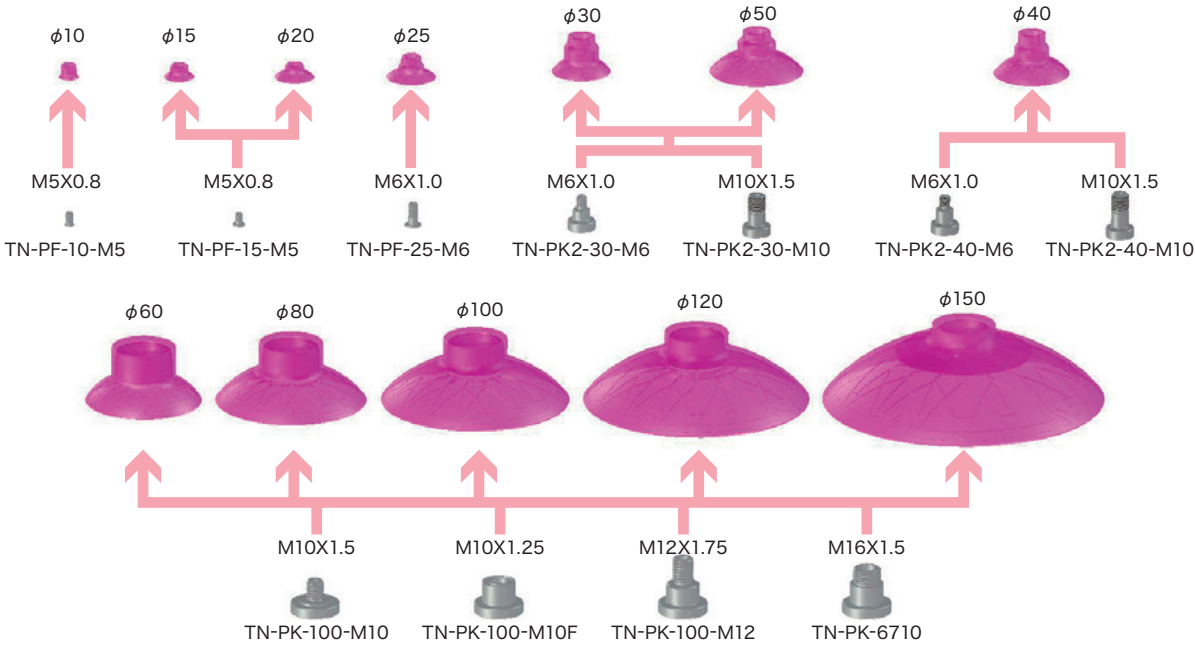
Model	Mass (g)	Minimum radius of curvature of workpieces (mm)	Maximum expansion amount of cup diameter (mm)
PK2-10-T	0.2	8	10.9
PK2-15-T	0.3	12.5	16.6
PK2-20-T	0.5	15	21.7
PK2-25-T	1.2	20	26.8
PK2-30-T	3.2	16	37
PK2-40-T	5.1	20	47.8
PK2-50-T	6.8	25	58.5
PK2-60-T	18	31	70.9
PK2-80-T	25	35	91
PK2-100-T	37.2	45	112.5
PK2-120-T	57.7	55	136.1
PK2-150-T	100	75	169.8

Applicable setting screws list·screw specifications

Setting screw model	Specifications	Tightening torque (N · m)	Material	Applicable cup diameter (φ mm)											
				10	15	20	25	30	40	50	60	80	100	120	150
TN-PF-10-M5	M5X0.8 Male screw	-	Brass	○											
TN-PF-15-M5		-			○	○									
TN-PF-25-M6		-					○								
TN-PK2-30-M6	M6X1.0 Male screw	5	Stainless steel					○		○					
TN-PK2-40-M6								○							
TN-PK2-30-M10								○		○					
TN-PK2-40-M10	M10X1.5 Male screw	12.5	Carbon steel						○						
TN-PK-100-M10															
TN-PK-100-M10F											○	○	○	○	○
TN-PK-100-M12	M12X1.75 Male screw	21								○	○	○	○	○	
TN-PK-6710	M16X1.5 Male screw	38.5									○	○	○	○	

※Myotoku standard fitting set is mountable. Please refer to the details in the list below.

Assembly picture for suction cup·setting screw



Applicable fitting set list(Please screw the suction cup directly to the fittings.)

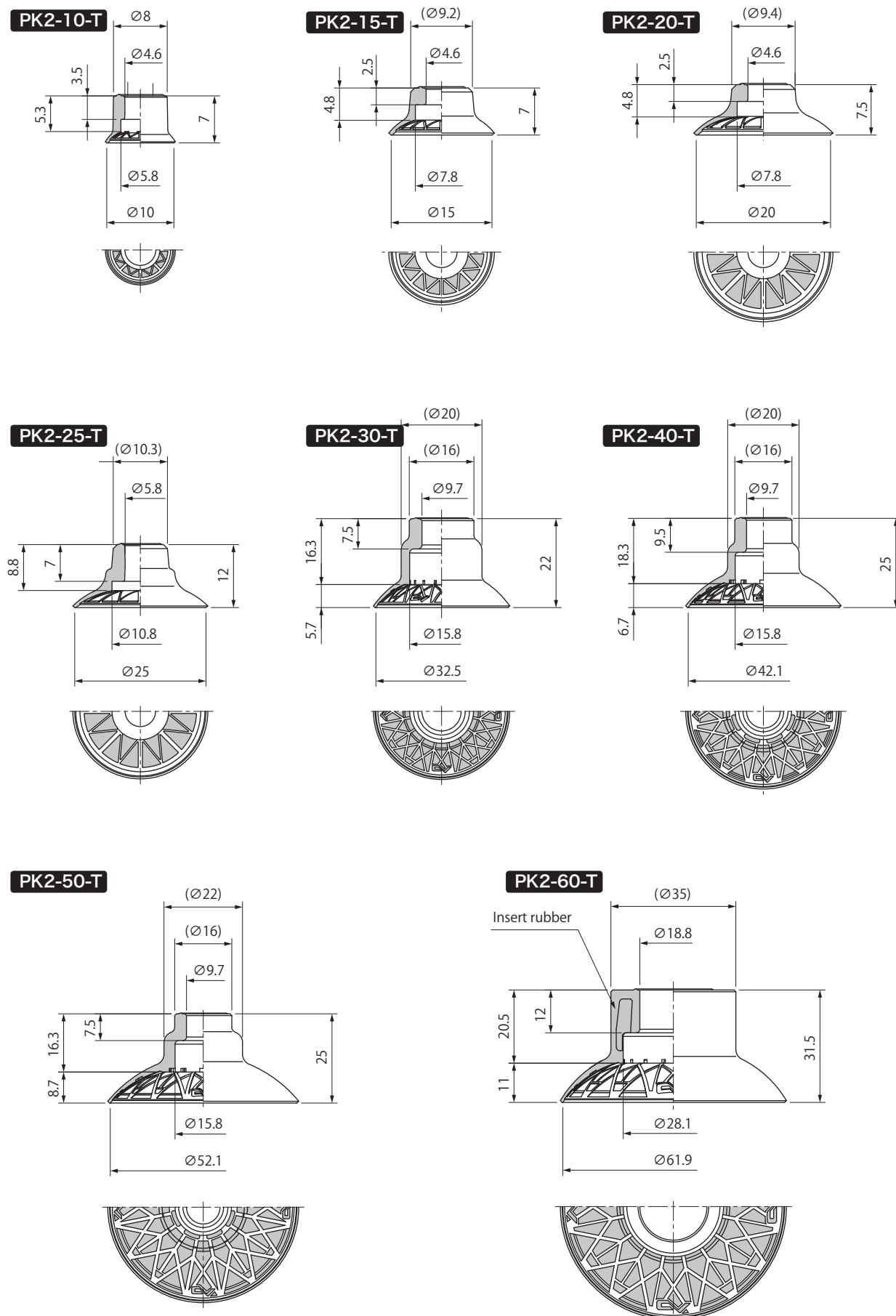
PK2 model	Setting screw	Applicable fitting set			Recommended torque (N · m)
		Fixed fitting	Spring fitting	Spring fitting with non-rotation	
PK2-10-T	TN-PF-10-M5	PFOK-15-K	NAPCOS-10-3-K (-T/O)	NAPCOH-10-3-K (-T/O)	-
PK2-15-T	TN-PF-15-M5		NAPCOS-10-10-K (-T/O)	NAPCOH-10-10-K (-T/O)	
PK2-20-T			NAPCOS-10-15-K (-T/O)	NAPCOH-10-15-K (-T/O)	
PK2-30-T	TN-PK2-30-M6	PFOK-25-K	NAPFOS-20B-6-K (-T/O)	NAPFOH-20B-6-K (-T/O)	5
PK2-40-T	TN-PK2-40-M6		NAPFOS-20B-15-K (-T/O)	NAPFOH-20B-15-K (-T/O)	
PK2-50-T	TN-PK2-30-M6		NAPFOS-20B-30-K (-T/O)	NAPFOH-20B-30-K (-T/O)	
PK2-60-T	TN-PK-100-M10F	PFOK-60-K	NAPFOS-60-10-K NAPFOS-60-30-K NAPFOS-60-50-K	None	12.5
PK2-80-T					
PK2-100-T					
PK2-120-T					
PK2-150-T					

※○ indicates the vacuum port type.(T=top port, Y=side port)
※The recommended torque is only for metal-to-metal tightening.



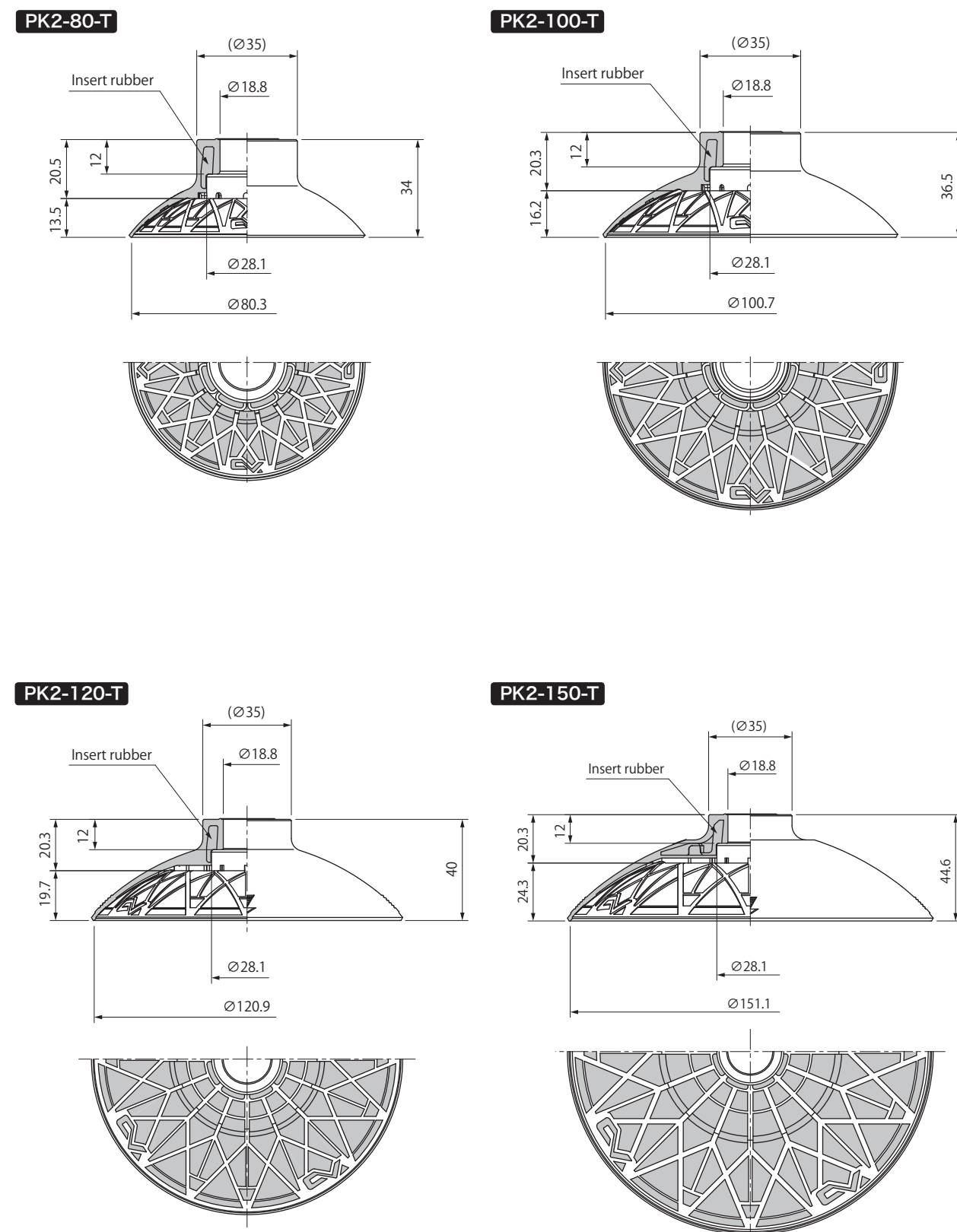
Dimensions

(mm)



Dimensions

(mm)



PK2B

High durability ecology cup
Bellows type



How to order

PK2B — 60 — T — M10 — F

①

②

③

③Filter

Blank	Without
F	With

※ φ 10, 20, 30 is without filter (Blank) only

①Cup diameter(mm)

Symbol	Cup diameter
10	φ 10
20	φ 20
30	φ 30
40	φ 40
60	φ 60
80	φ 80
100	φ 100
120	φ 120
150	φ 150

Cup material
TPU

②Screw specifications

Symbol	Size	Applicable suction cup list
M5	M5X0.8 Male screw	φ 10
M6	M6X1.0 Male screw	φ 20,30,40
M10	M10X1.5 Male screw	φ 40,60,80,100,120,150
M12	M12X1.75 Male screw	φ 40,60,80,100,120,150
M16	M16X1.5 Male screw	φ 40,60,80,100,120,150
G1	G1/8 Male screw	φ 20,30
G2	G1/4 Male screw	φ 40,60,80
M10F	M10X1.25 Female screw	φ 60,80,100,120,150

Note 1) PK2B is assembly of screw and suction cup.
Note 2) The screw and suction cup is fixed with glue and cannot be taken off.
Note 3) We don't sell the filter only.

Suction cup material standard specifications

Symbol	Material	Hardness (A/s)	Ambient temperature (°C)	Color
T	TPU	85	-10 ~ 70	Semi-transparent pink

※Insert material is aluminum.

Fitting specifications

Cup diameter	φ 10	φ 20,30		φ 40, 60, 80, 100, 120, 150					
Screw specification	M5X0.8 Male screw	M6X1.0 Male screw	G1/8 Male screw	M6X1.0 Male screw Note1	M10X1.5 Male screw	M12X1.75 Male screw	M16X1.5 Male screw	G1/4 Male screw Note2	M10X1.25 Female screw Note3
Tightening torque(N・m)	1.5	2.6	9.1	5	12.5	21	38.5	24.2	12.5
Material	Aluminum			Carbon steel					Aluminum
Filter	Without			SUS (MESH60) Note4					
Washer	NBR								Without

Note 1) It's used for φ 40 only.
Note 2) It's used for φ 40, φ 60, φ 80 only.
Note 3) It's used for φ 60, φ 80, φ 100, φ 120, φ 150 only.
Note 4) When selecting with filter.

Applicable fitting set list(Please screw the suction cup directly to the fittings.)

PK2 model	Applicable fitting set			Recommended torque (N・m)
	Fixed fitting	Spring fitting	Spring fitting with non-rotation	
PK2B-10-T-M5	PFOK-15-K	NAPCOS-10-3-K (-T/O)	NAPCOH-10-3-K (-T/O)	1.5
		NAPCOS-10-10-K (-T/O)	NAPCOH-10-10-K (-T/O)	
		NAPCOS-10-15-K (-T/O)	NAPCOH-10-15-K (-T/O)	
PK2B-20-T-M6	PFOK-25-K	NAPFOS-20B-6-K (-T/O) NAPFOS-20B-15-K (-T/O) NAPFOS-20B-30-K (-T/O)	NAPFOH-20B-6-K (-T/O) NAPFOH-20B-15-K (-T/O) NAPFOH-20B-30-K (-T/O)	2.6
PK2B-30-T-M6				
PK2B-40-T-M6				5
PK2B-60-T-M10F	PFOK-60-K	NAPFOS-60-10-K NAPFOS-60-30-K NAPFOS-60-50-K	None	12.5
PK2B-80-T-M10F				
PK2B-100-T-M10F				
PK2B-120-T-M10F				
PK2B-150-T-M10F				

※○ indicates the vacuum port type.(T=top port, Y=side port)
※The recommended torque is only for metal-to-metal tightening.

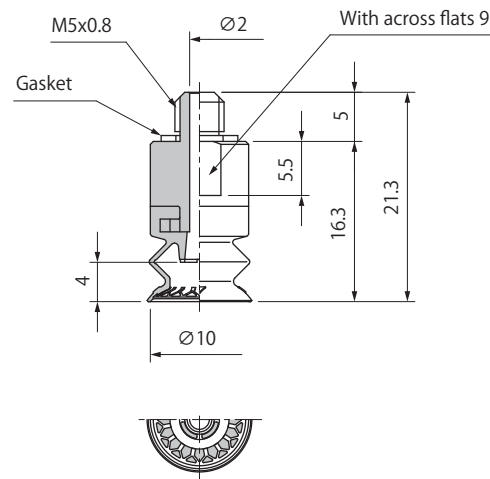


Assembly with fitting

Dimensions

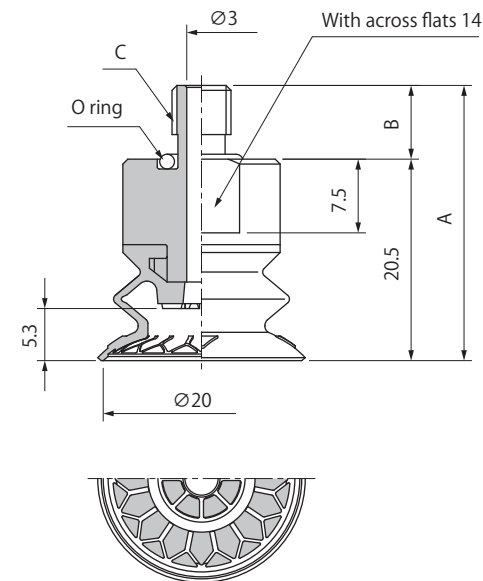
(mm)

PK2B-10



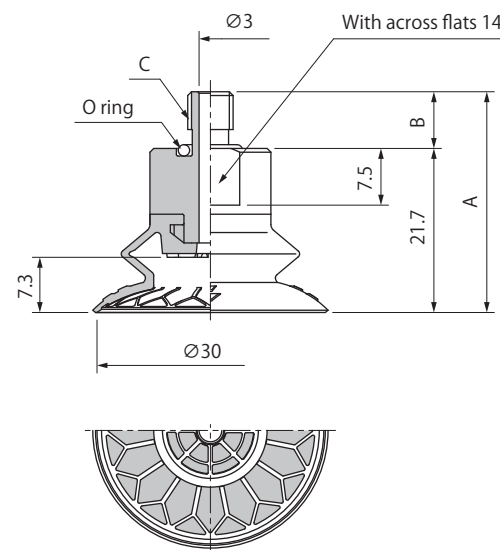
Model	Mass(g)
PK2B-10-T-M5	2.1

PK2B-20



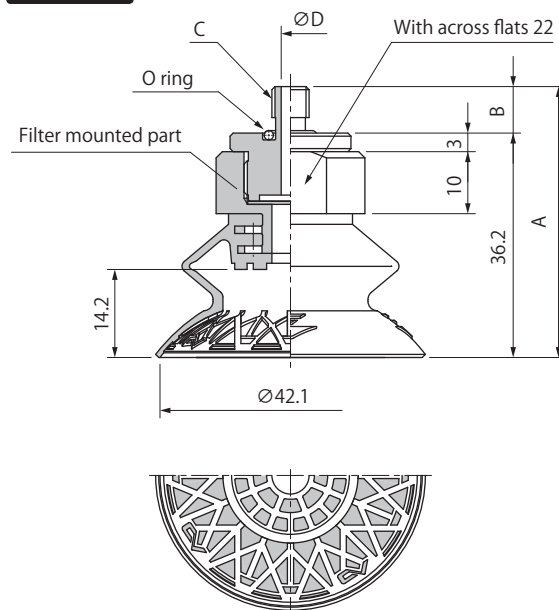
Model	A	B	C	Mass(g)
PK2B-20-T-M6	28	7.5	M6×1.0	6.4
PK2B-20-T-G1	28.5	8	G1/8	7.2

PK2B-30



Model	A	B	C	Mass(g)
PK2B-30-T-M6	29.2	7.5	M6×1.0	7.3
PK2B-30-T-G1	29.7	8	G1/8	8.2

PK2B-40



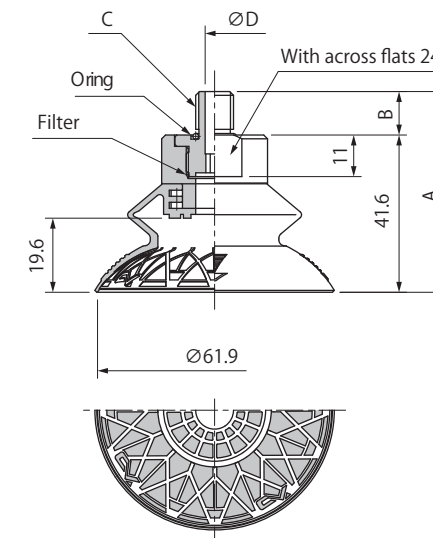
Model	A	B	C	D	Mass(g)
PK2B-40-T-M6(-F)	43.7	7.5	M6×1.0	3	32.1
PK2B-40-T-M10(-F)	47.7	11.5	M10×1.5	5	34.2
PK2B-40-T-M12(-F)	51.2	15	M12×1.75	6	35.3
PK2B-40-T-M16(-F)	46.2	10	M16×1.5	10	33
PK2B-40-T-G2(-F)	45.2	9	G1/4	6	34.2

※Mass indicates the value of PK2B without filter (F).
※The mass of filter is 0.1g.

Dimensions

(mm)

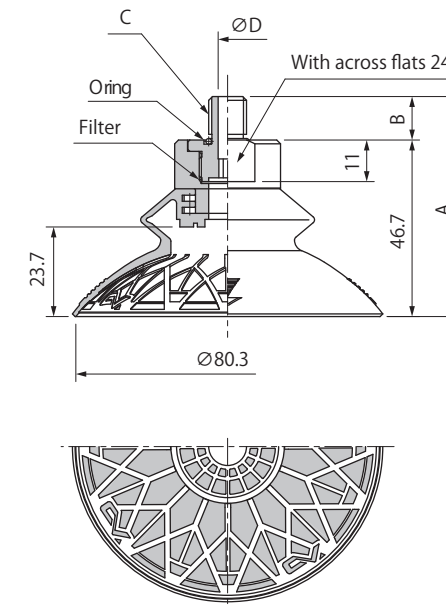
PK2B-60 Male screw



Model	A	B	C	D	Mass(g)
PK2B-60-T-M10(-F)	53.1	11.5	M10×1.5	5	48.9
PK2B-60-T-M12(-F)	56.6	15	M12×1.75	6	50.0
PK2B-60-T-M16(-F)	51.6	10	M16×1.5	10	47.6
PK2B-60-T-G2(-F)	50.6	9	G1/4	6	48.9

※Mass indicates the value of PK2B without filter (F).
※The mass of filter is 0.1g.

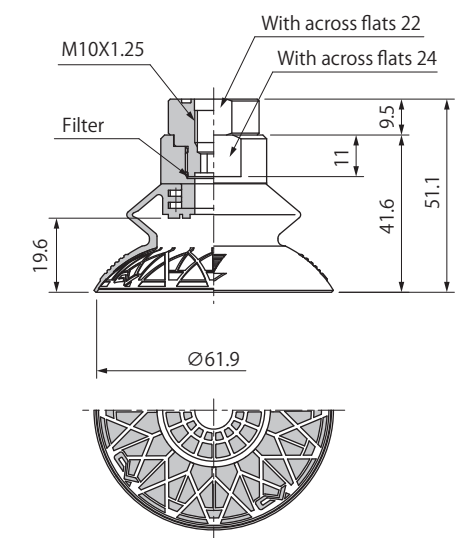
PK2B-80 Male screw



Model	A	B	C	D	Mass(g)
PK2B-80-T-M10(-F)	58.2	11.5	M10×1.5	5	56.5
PK2B-80-T-M12(-F)	61.7	15	M12×1.75	6	57.6
PK2B-80-T-M16(-F)	56.7	10	M16×1.5	10	55.2
PK2B-80-T-G2(-F)	55.7	9	G1/4	6	56.4

※Mass indicates the value of PK2B without filter (F).
※The mass of filter is 0.1g.

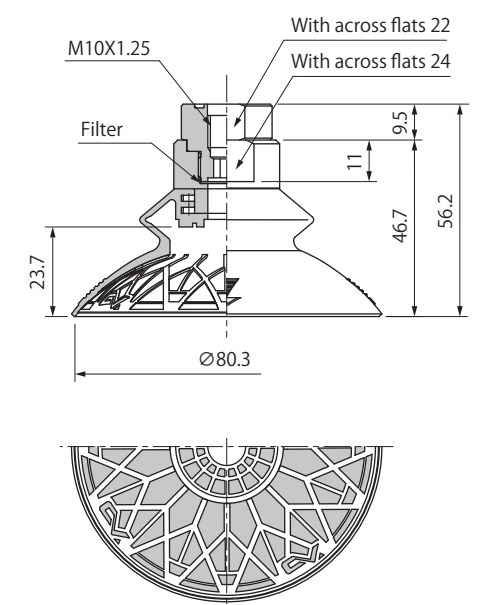
PK2B-60 Female screw



Model	Mass(g)
PK2B-60-T-M10F(-F)	44.5

※Mass indicates the value of PK2B without filter (F).
※The mass of filter is 0.1g.

PK2B-80 Female screw

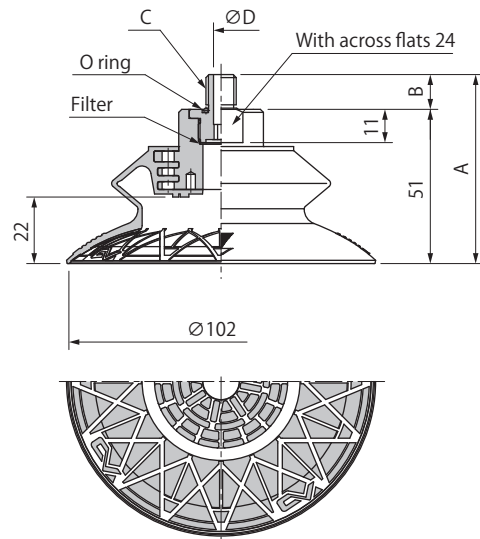


Model	Mass(g)
PK2B-80-T-M10F(-F)	52

Dimensions

(mm)

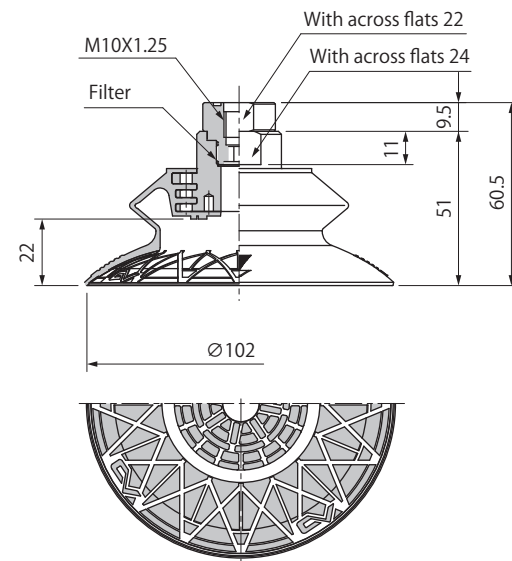
PK2B-100 Male screw



Model	A	B	C	D	Mass(g)
PK2B-100-T-M10(-F)	62.5	11.5	M10×1.5	5	120.7
PK2B-100-T-M12(-F)	66	15	M12×1.75	6	121.9
PK2B-100-T-M16(-F)	61	10	M16×1.5	10	119.5

※Mass indicates the value of PK2B without filter (F).
 ※The mass of filter is 0.1g.

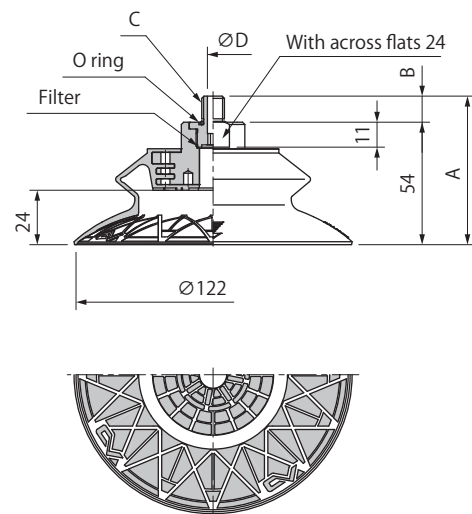
PK2B-100 Female screw



Model	Mass(g)
PK2B-100-T-M10F(-F)	116.2

※Mass indicates the value of PK2B without filter (F).
 ※The mass of filter is 0.1g.

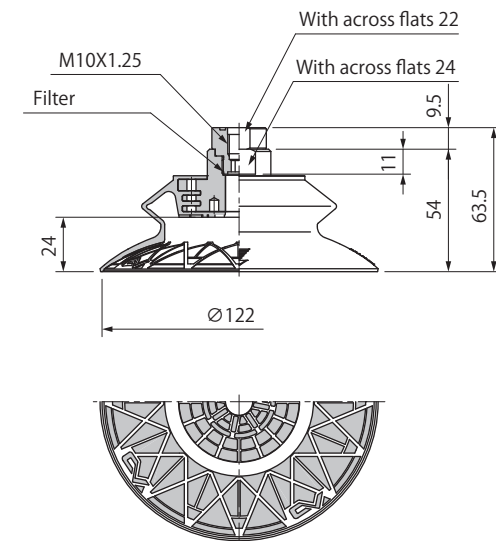
PK2B-120 Male screw



Model	A	B	C	D	Mass(g)
PK2B-120-T-M10(-F)	65.5	11.5	M10×1.5	5	168.7
PK2B-120-T-M12(-F)	69	15	M12×1.75	6	169.9
PK2B-120-T-M16(-F)	64	10	M16×1.5	10	167.5

※Mass indicates the value of PK2B without filter (F).
 ※The mass of filter is 0.1g.

PK2B-120 Female screw



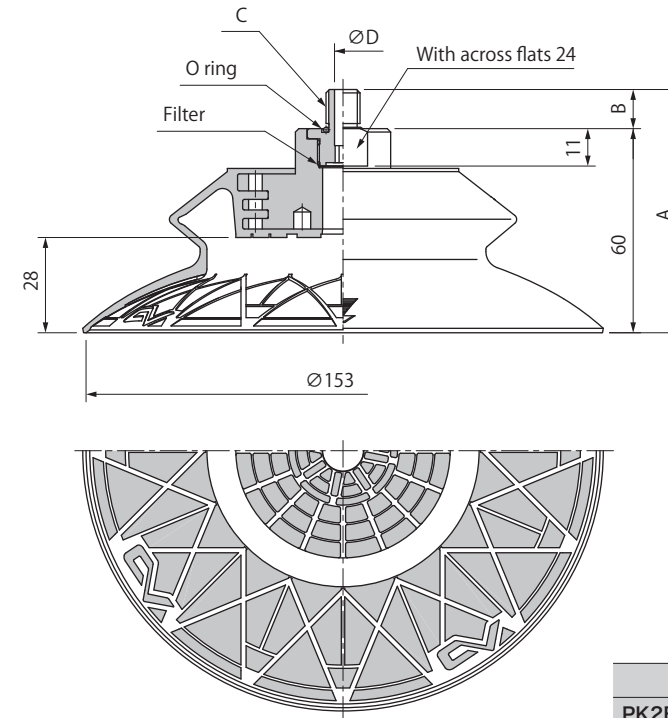
Model	Mass(g)
PK2B-120-T-M10F(-F)	164.2

※Mass indicates the value of PK2B without filter (F).
 ※The mass of filter is 0.1g.

Dimensions

(mm)

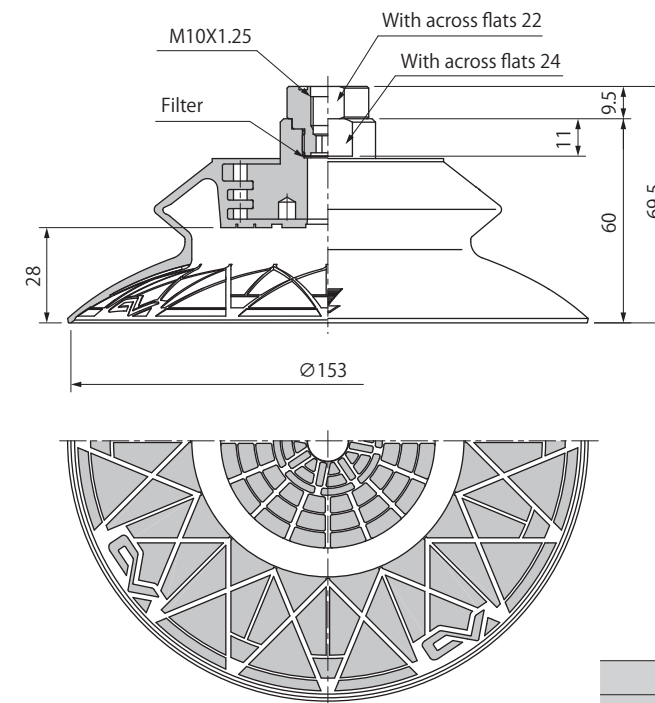
PK2B-150 Male screw



Model	A	B	C	D	Mass(g)
PK2B-150-T-M10(-F)	71.5	11.5	M10×1.5	5	244.7
PK2B-150-T-M12(-F)	75	15	M12×1.75	6	245.9
PK2B-150-T-M16(-F)	70	10	M16×1.5	10	243.5

※Mass indicates the value of PK2B without filter (F).
 ※The mass of filter is 0.1g.

PK2B-150 Female screw



Model	Mass(g)
PK2B-150-T-M10F(-F)	238.9

※Mass indicates the value of PK2B without filter (F).
 ※The mass of filter is 0.1g.

PK2L

High durability ecology cup
Oval type



How to order

• Suction cup only

PK2L — 60X20 — T

①Cup diameter
(Long diameterxShort diameter)mm

Symbol	Cup diameter
60X20	60X20
80X30	80X30
100X40	100X40

Cup material
TPU

• Fixed fitting

PK2L — 60X20 — T — M10

①Cup diameter
(Long diameterxShort diameter)mm

Symbol	Cup diameter
60X20	60X20
80X30	80X30
100X40	100X40

Cup material
TPU

②Screw specifications

Symbol	Screw specification
M10	M10X1.5 Male screw
M12	M12X1.75 Male screw
M16	M16X1.5 Male screw
G2F	G1/4 Female screw

• Fitting set

PK2L — 60X20 — K — M10

①Applicable suction cup(mm)

Symbol	Applicable cup size
60X20	60 X 20/80 X 30
100X40	100 X 40

Metal fitting

②Screw specifications

Symbol	Screw specification
M10	M10X1.5 Male screw
M12	M12X1.75 Male screw
M16	M16X1.5 Male screw
G2F	G1/4 Female screw

• Setting screw

TN — PK2L — M6

Screw specification

Symbol	Screw specification	Applicable cup size
M6	M6X1.0	60 X 20/80 X 30
M8	M8X1.25	100 X 40

Suction cup material standard specifications

Symbol	Material	Hardness(A/s)	Ambient temperature(°C)	Color
T	TPU	85	-10 ~ 70	Semi-transparent pink

※The material of insert is PA(Polyamide).

Fitting specifications

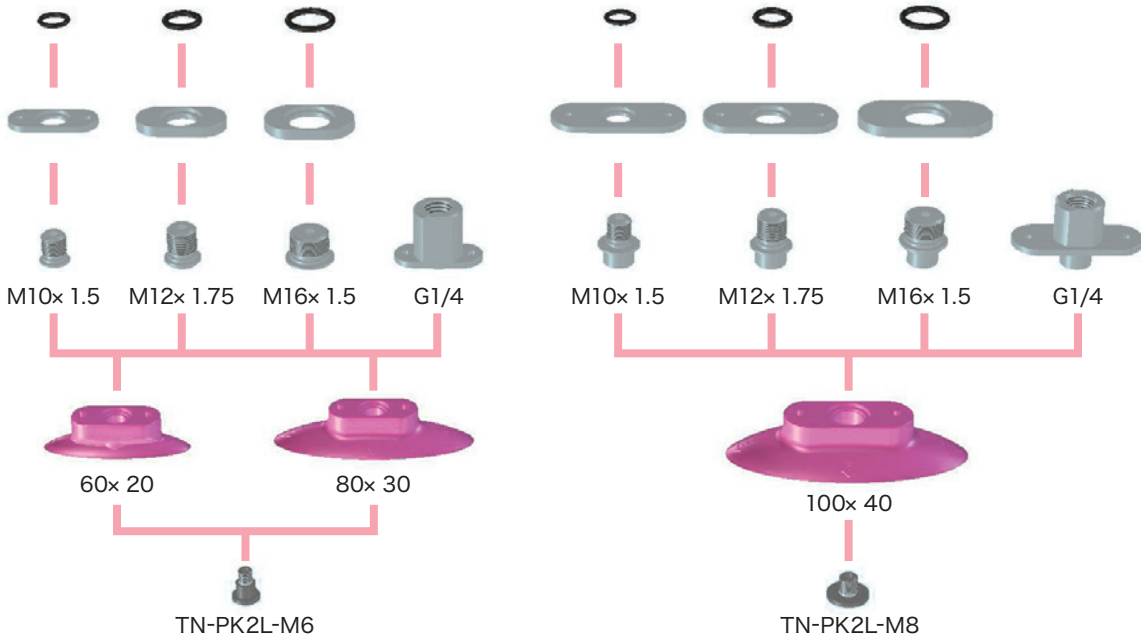
Cup diameter		60X20 / 80X30 / 100X40							
Screw specifications		M10X1.5 Male screw		M12X1.75 Male screw		M16X1.5 Male screw		G1/4 Female screw	
Material	Mounted screw	Steel						Aluminum	
	Fixed plate	Aluminum							
	Setting screw	Stainless steel						None	
	Washer	NBR							

Assembly list

Model	Suction cup	Setting screw	Fitting set	Specification for piping part	Recommended tightening torque (N · m)
PK2L-60X20-T-M10	PK2L-60X20-T	TN-PK2L-M6	PK2L-60X20-K-M10	M10 X 1.5 Male screw	5
PK2L-80X30-T-M10	PK2L-80X30-T		PK2L-100X40-K-M10		10
PK2L-100X40-T-M10	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-M10	M12 X 1.75 Male screw	5
PK2L-60X20-T-M12	PK2L-60X20-T	TN-PK2L-M6	PK2L-60X20-K-M12		10
PK2L-80X30-T-M12	PK2L-80X30-T		PK2L-100X40-K-M12	M16 X 1.5 Male screw	5
PK2L-100X40-T-M12	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-M12		10
PK2L-60X20-T-M16	PK2L-60X20-T	TN-PK2L-M6	PK2L-60X20-K-M16	G1/4 Female screw	5
PK2L-80X30-T-M16	PK2L-80X30-T		PK2L-100X40-K-M16		10
PK2L-100X40-T-M16	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-M16	G1/4 Female screw	5
PK2L-60X20-T-G2F	PK2L-60X20-T	TN-PK2L-M6	PK2L-60X20-K-G2F		10
PK2L-80X30-T-G2F	PK2L-80X30-T		PK2L-100X40-K-G2F		10
PK2L-100X40-T-G2F	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-G2F		10

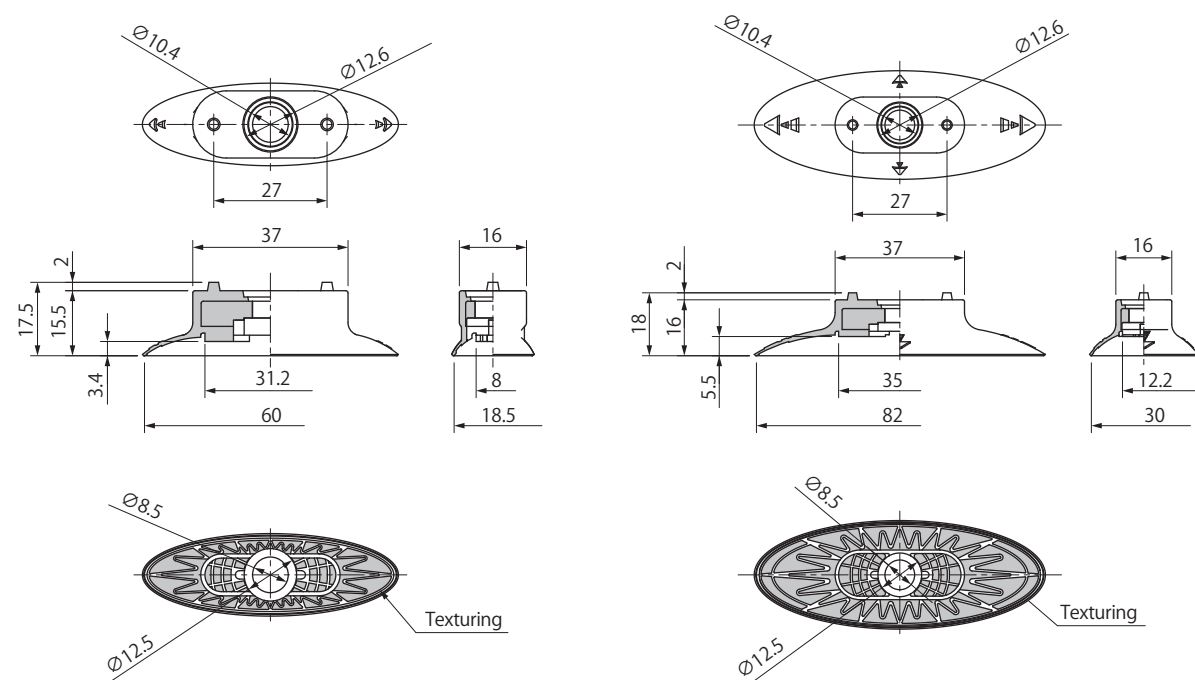
※The recommended torque is only for metal-to-metal tightening.

Assembly picture of suction cup-setting screw



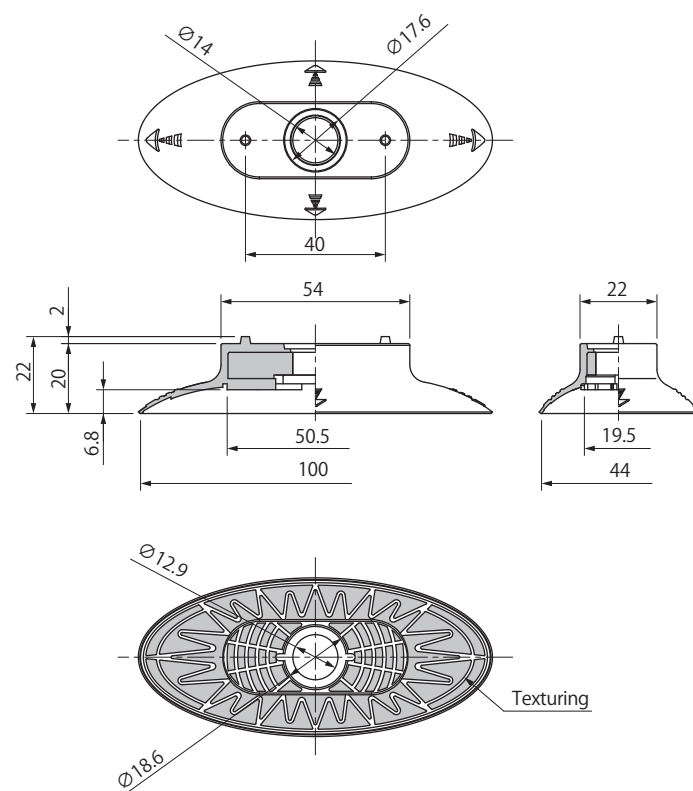
Dimensions

(mm)



Model	Mass(g)
PK2L-60X20-T	6.3

Model	Mass(g)
PK2L-80X30-T	7.4

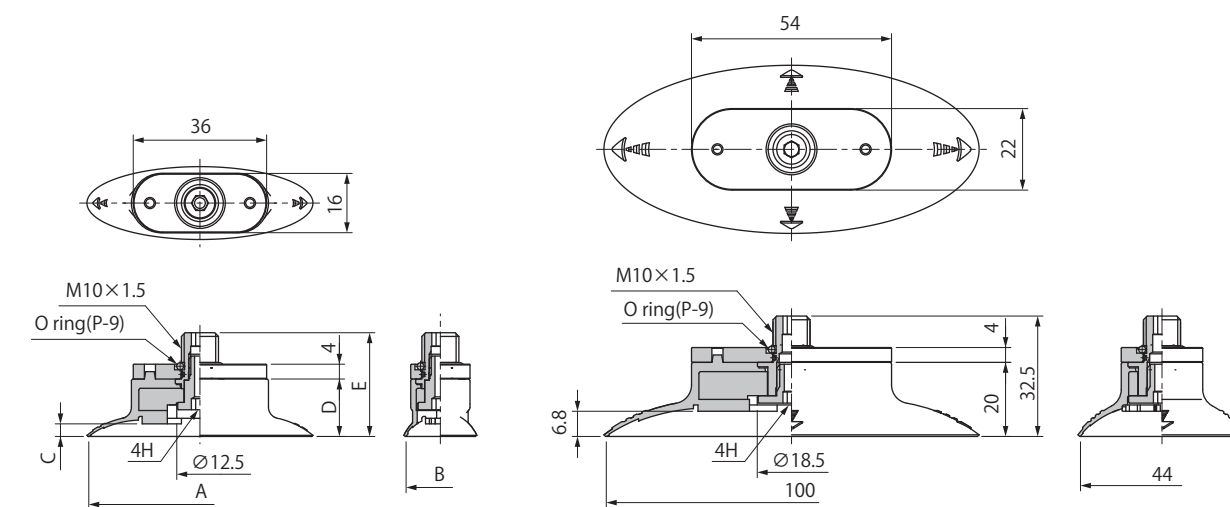


Model	Mass(g)
PK2L-100X40-T	18.8

Fitting with suction cup

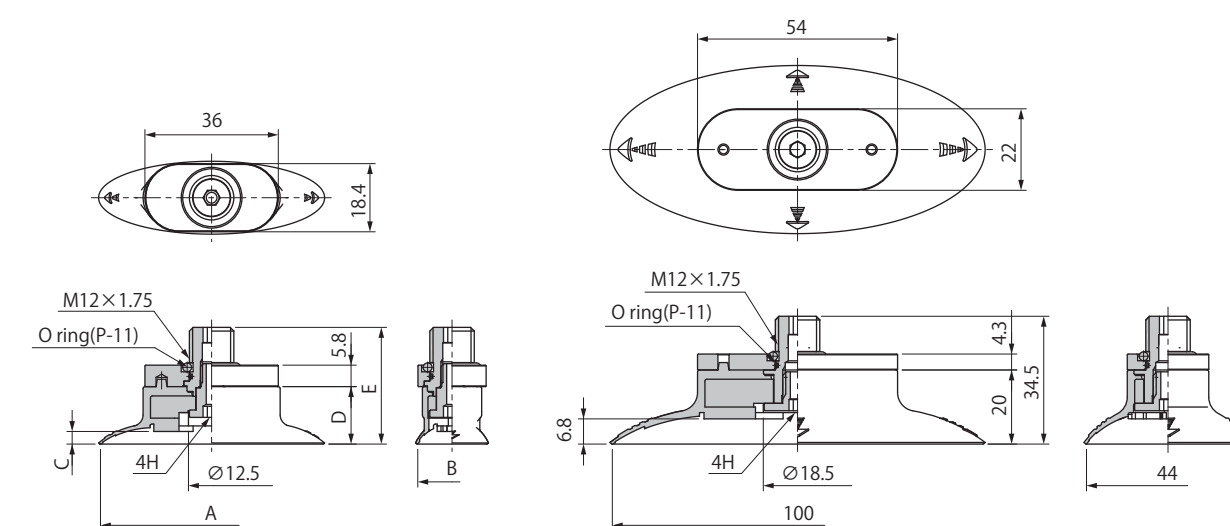
(mm)

M10 type



Model	A	B	C	D	E	Mass(g)
PK2L-60X20-T-M10	60	18.5	3.4	15.5	28	20.2
PK2L-80X30-T-M10	82	30	5.5	16	28.5	21.3
PK2L-100X40-T-M10	-	-	-	-	-	45.9

M12 type

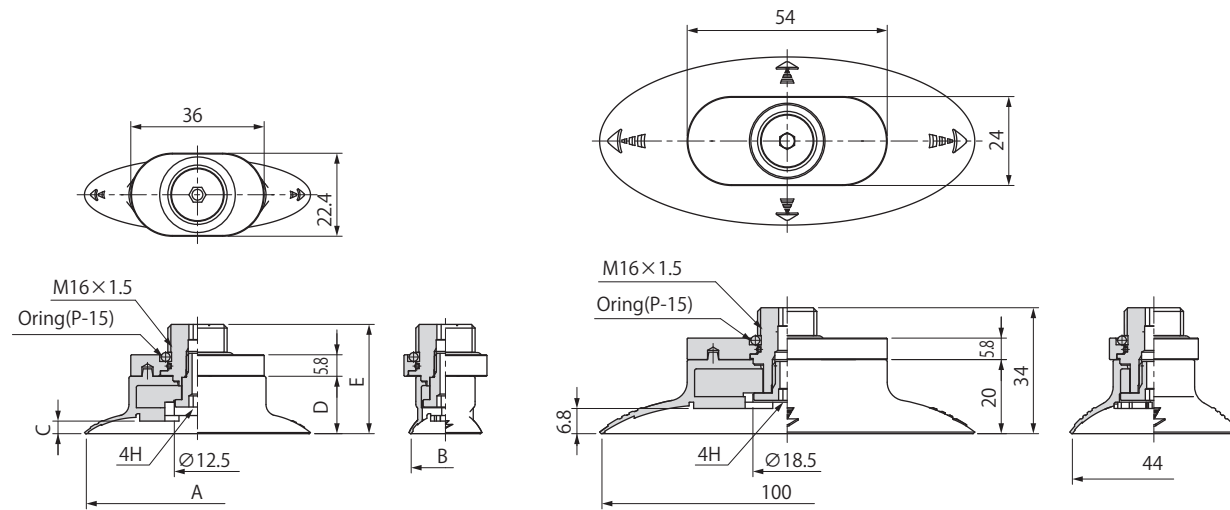


Model	A	B	C	D	E	Mass(g)
PK2L-60X20-T-M12	60	18.5	3.4	15.5	31.5	28.2
PK2L-80X30-T-M12	82	30	5.5	16	32	29.3
PK2L-100X40-T-M12	-	-	-	-	-	50.1

Fitting with suction cup

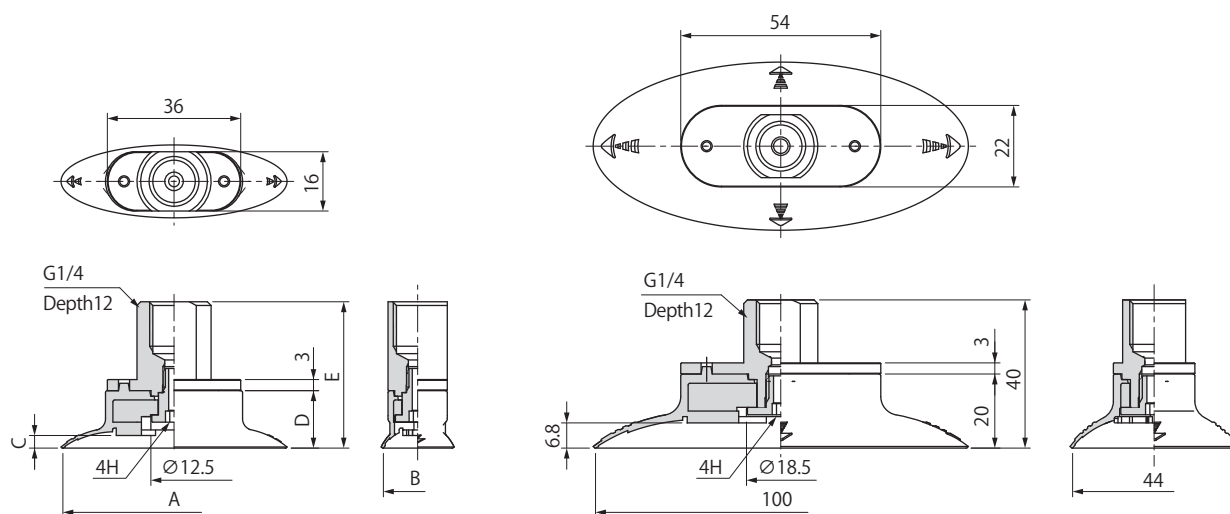
(mm)

M16 type



Model	A	B	C	D	E	Mass
PK2L-60X20-T-M16	60	18.5	3.4	15.5	29.5	36.3
PK2L-80X30-T-M16	82	30	5.5	16	30	37.4
PK2L-100X40-T-M16	-	-	-	-	-	63.4

G2F type



Model	A	B	C	D	E	Mass
PK2L-60X20-T-G2F	60	18.5	3.4	15.5	39.5	25.3
PK2L-80X30-T-G2F	82	30	5.5	16	40	26.4
PK2L-100X40-T-G2F	-	-	-	-	-	43.3

Setting screw

(mm)

Model	TN-PF-10-M5	Mass	1.0g
Applicable suction cup model			
PFG-10-□			
PK2-10-T			

※□ indicates material of suction cup.

Model	TN-PF-25-M6	Mass	3.3g
Applicable suction cup model			
PBG-30/40-□			
PDG-20/30/40-□			
PFG-20B/25/30/35/40-□			
PFG-25/30/35/40-□			
PHG-30/45-□			
PJG-30/35/40-□			
PK2-25-T			

※□ indicates material of suction cup.

Model	TN-PK-100-M10F	Mass	45.9g
Applicable suction cup model			
PK2-60-T			
PK2-80-T			
PK2-100-T			
PK2-120-T			
PK2-150-T			

Model	TN-PK-6710	Mass	50.6g
Applicable suction cup model			
PK2-60-T			
PK2-80-T			
PK2-100-T			
PK2-120-T			
PK2-150-T			

Model	TN-PF-15-M5	Mass	1.4g
Applicable suction cup model			
PFG-15-□			
PJG-10/15-□			
PK215/20-T			
PRG-12.5X23-□			

※□ indicates material of suction cup.

Model	TN-PK-100-M10	Mass	34.7g
Applicable suction cup model			
PK2-60-T			
PK2-80-T			
PK2-100-T			
PK2-120-T			
PK2-150-T			

Model	TN-PK-100-M12	Mass	55.9g
Applicable suction cup model			
PK2-60-T			
PK2-80-T			
PK2-100-T			
PK2-120-T			
PK2-150-T			

Model	TN-PK2-30-M6	Mass	13.1g
Applicable suction cup model			
PK2-30-T			
PK2-50-T			