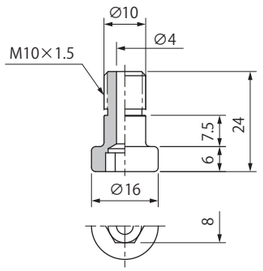
Setting screw

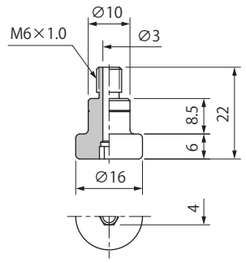
(mm)

Model	TN-PK2-30-M10	Mass	14.4 g



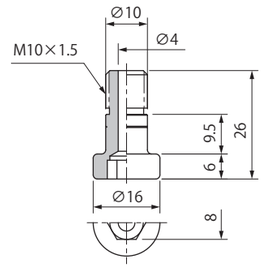
Applicable suction cups
PK2-30-T
PK2-50-T

Model	TN-PK2-40-M6	Mass	14.2 g



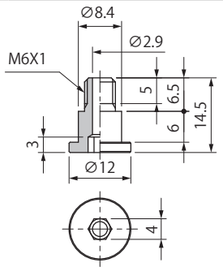
Applicable suction cups
PK2-40-T

Model	TN-PK2-40-M10	Mass	15.3 g



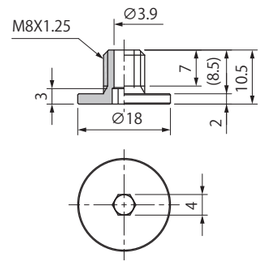
Applicable suction cups
PK2-40-T

Model	TN-PK2L-M6	Mass	4.5g



Applicable suction cups
PK2L-60X20-T
PK2L-80X30-T

Model	TN-PK2L-M8	Mass	5.7g



Applicable suction cups
TN-PK2L-100×40-T

CONVUM

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No. 8Z28

High durability ecology cup

(Flat type, Bellows type, Oval type)

CONVUM®

PK2 PK2B PK2L series

NEW

High durability ecology cup Flat type

PK2 series

High durability

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

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

Oil resistance Excellent resitance against mineral oil, vegetable oil

Weather resistance Excellent resitance against ozone, long life circle

TPU physical characteristics comparison

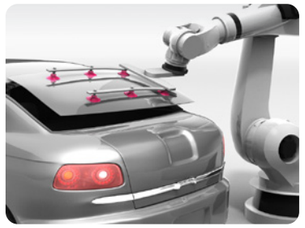
Type	NBR	TPU
Hardness(A/s)	55	85
Tensile strength TB(MPa)	13.5	46
Tear strength TR(N/mm)	34.8	95
Growth EB(%)	630	570
※1 Taber abrasion loss	241	24
※2 Wear resistant	△～○	◎
※2 Aging resistance	○	○
※2 Ozone resistance	×	◎
※2 Oil resistance	○	◎

※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.

Follows to curved surface

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

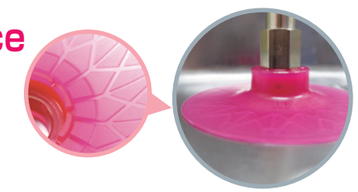
Application **automotive industry**



Due to high durability, less replacement and running cost.

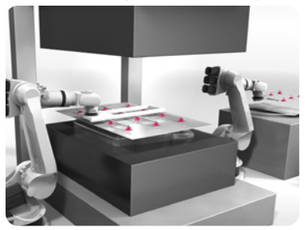
Anti-slip Pattern

Patterned cup surface prevents sideslip on workpieces with an oily surface



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

Application **press industry**



ECO Light weight

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%

NEW

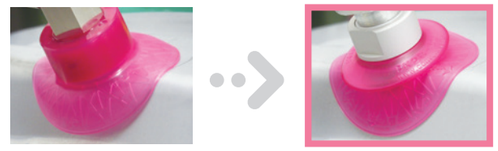
High durability ecology cup Bellows type

PK2B series

Follows to curved surface

More flexible lip to follow curved surface than flat type

Suitable for handling a wide range of workpiece shapes

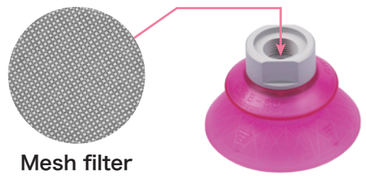


Flat type　　Bellows type

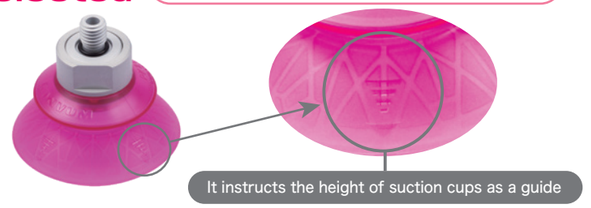
Filter to prevent foreign objects

Mesh filter to avoid getting foreign objects can be selected

Level is marked on the suction cup.



Mesh filter



NEW

High durability ecology cup Oval type

PK2L series

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

Narrow workpieces

PK2

High durability ecology cup
Flat type

How to order

PK2 — 15 — T
①

①Cup diameter(mm)

Symbol	Cup diameter	Symbol	Cup diameter
10	ϕ10	50	ϕ50
15	ϕ15	60	ϕ60
20	ϕ20	80	ϕ80
25	ϕ25	100	ϕ100
30	ϕ30	120	ϕ120
40	ϕ40	150	ϕ150

Cup material
TPU

Cup material standard specifications

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

※Material of insert for more than ϕ60 cup diameters is PA

Cup standard specifications

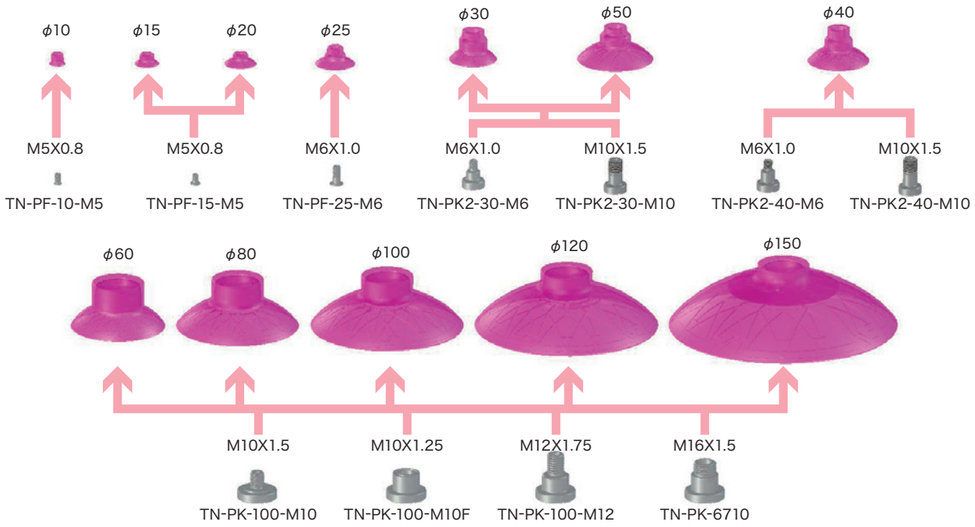
Model	Mass (g)	Minimum radius of curvature of workpieces (mm)	Maximum expansion amount of cup diameter(mm)
PK2-10-T	0.2	8	10.9
PK2-15-T	0.3	12.5	16.6
PK2-20-T	0.5	15	21.7
PK2-25-T	1.2	20	26.8
PK2-30-T	3.2	16	37
PK2-40-T	5.1	20	47.8
PK2-50-T	6.8	25	58.5
PK2-60-T	18	31	70.9
PK2-80-T	25	35	91
PK2-100-T	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	M6X1.0 Male screw	-					○								
TN-PK2-30-M6		5	Stainless steel					○		○					
TN-PK2-40-M6									○						
TN-PK2-30-M10	M10X1.5 Male screw	12.5						○		○					
TN-PK2-40-M10									○						
TN-PK-100-M10			Carbon steel								○	○	○	○	○
TN-PK-100-M10F	M10X1.25 Female screw	-									○	○	○	○	○
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	PF○K-15-K	NAPC○S-10-3-K (-T/O)	NAPC○H-10-3-K (-T/O)	-
PK2-15-T	TN-PF-15-M5		NAPC○S-10-10-K (-T/O)	NAPC○H-10-10-K (-T/O)	
PK2-20-T			NAPC○S-10-15-K (-T/O)	NAPC○H-10-15-K (-T/O)	
PK2-30-T	TN-PK2-30-M6	PF○K-25-K	NAPF○S-20B-6-K (-T/O)	NAPF○H-20B-6-K (-T/O)	5
PK2-40-T	TN-PK2-40-M6		NAPF○S-20B-15-K (-T/O)	NAPF○H-20B-15-K (-T/O)	
PK2-50-T	TN-PK2-30-M6		NAPF○S-20B-30-K (-T/O)	NAPF○H-20B-30-K (-T/O)	
PK2-60-T	TN-PK-100-M10F	PF○K-60-K	NAPF○S-60-10-K NAPF○S-60-30-K NAPF○S-60-50-K	None	12.5
PK2-80-T					
PK2-100-T					
PK2-120-T					
PK2-150-T					

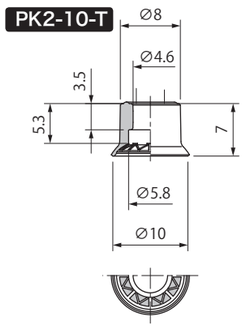
※○ indicates the vacuum port type.(T=top port, Y=side port)
※The recommended torque is only for metal-to-metal tightening.

Assembly with fitting

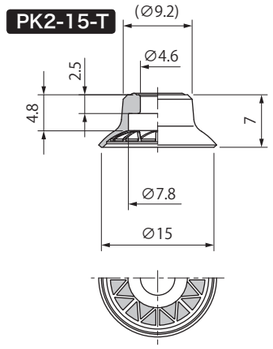
Dimensions

(mm)

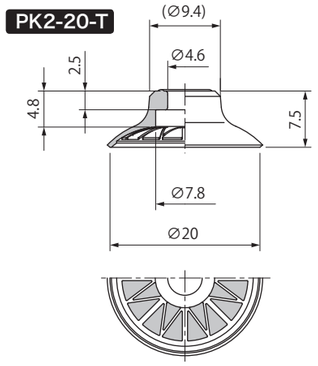
PK2-10-T



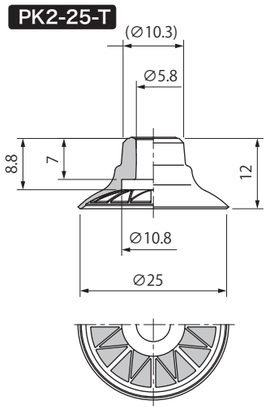
PK2-15-T



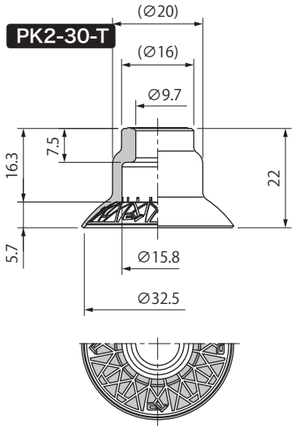
PK2-20-T



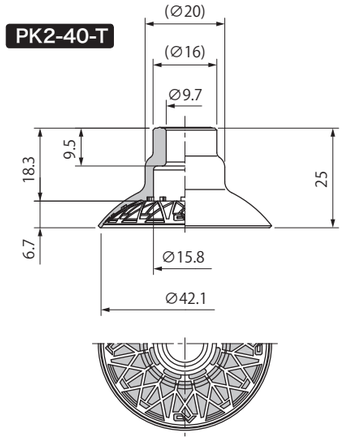
PK2-25-T



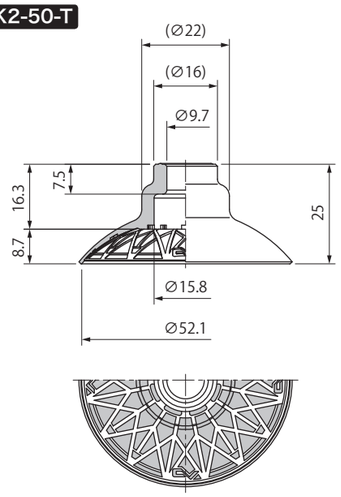
PK2-30-T



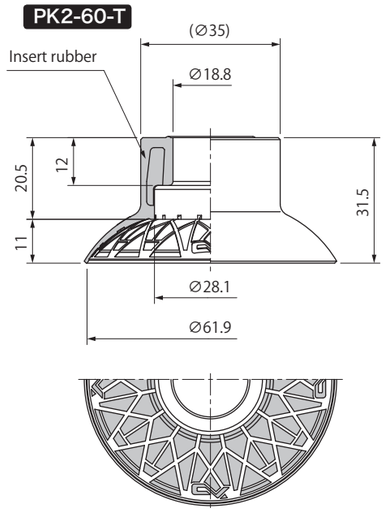
PK2-40-T



PK2-50-T



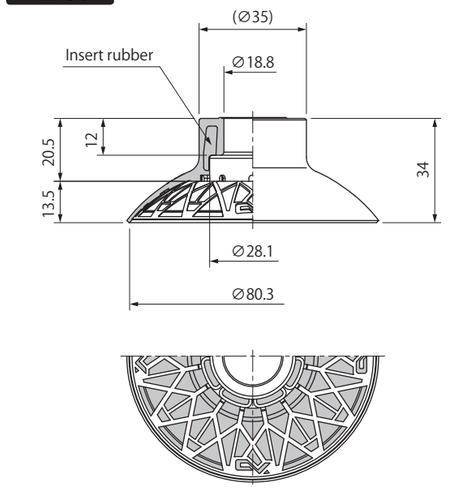
PK2-60-T



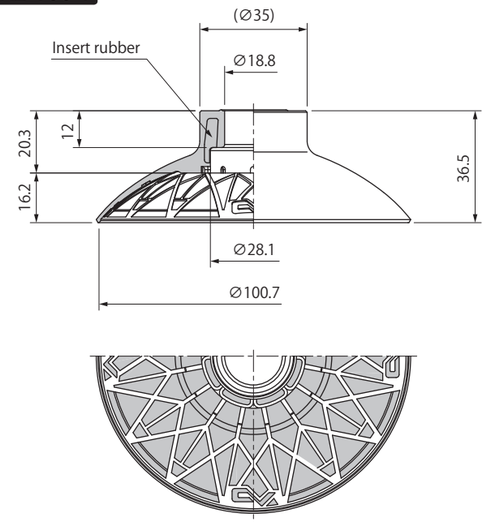
Dimensions

(mm)

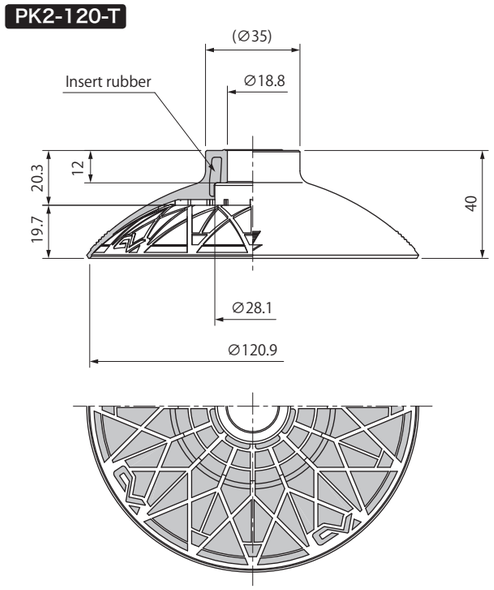
PK2-80-T



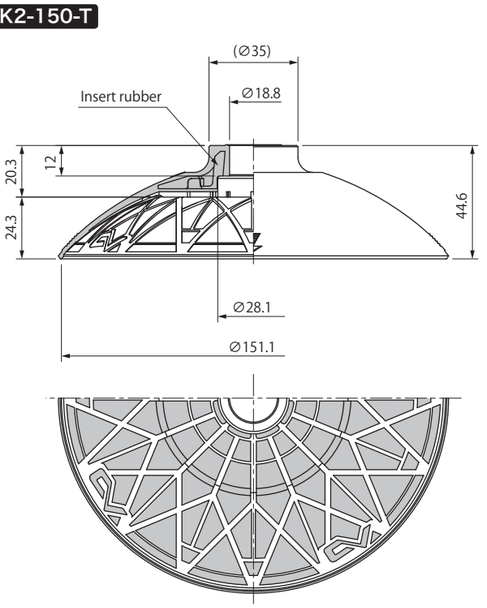
PK2-100-T



PK2-120-T



PK2-150-T



PK2B

High durability ecology cup
Bellows type

How to order

PK2B – 60 – T – M10 – F

① ② ③

①Cup diameter(mm)

Symbol	Cup diameter
10	ϕ10
20	ϕ20
30	ϕ30
40	ϕ40
60	ϕ60
80	ϕ80
100	ϕ100
120	ϕ120
150	ϕ150

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

③Filter

Blank	Without
F	With

※ϕ10, 20, 30 is without filter (Blank) only

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 (℃)	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 ϕ40 only.
Note 2) It's used for ϕ40, ϕ60, ϕ80 only.
Note 3) It's used for ϕ60, ϕ80, ϕ100, ϕ120, ϕ150 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	PF○K-15-K	NAPC○S-10-3-K (-T/O)	NAPC○H-10-3-K (-T/O)	1.5
		NAPC○S-10-10-K (-T/O)	NAPC○H-10-10-K (-T/O)	
		NAPC○S-10-15-K (-T/O)	NAPC○H-10-15-K (-T/O)	
PK2B-20-T-M6	PF○K-25-K	NAPF○S-20B-6-K (-T/O) NAPF○S-20B-15-K (-T/O) NAPF○S-20B-30-K (-T/O)	NAPF○H-20B-6-K (-T/O) NAPF○H-20B-15-K (-T/O) NAPF○H-20B-30-K (-T/O)	2.6
PK2B-30-T-M6				
PK2B-40-T-M6				5
PK2B-60-T-M10F	PF○K-60-K	NAPF○S-60-10-K NAPF○S-60-30-K NAPF○S-60-50-K	None	12.5
PK2B-80-T-M10F				
PK2B-100-T-M10F				
PK2B-120-T-M10F				
PK2B-150-T-M10F				

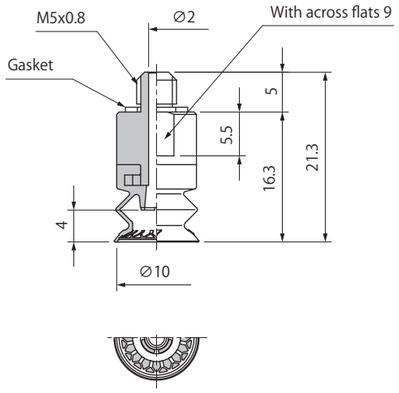
※○ indicates the vacuum port type.(T=top port, Y=side port)
※The recommended torque is only for metal-to-metal tightening.

Assembly with fitting

Dimensions

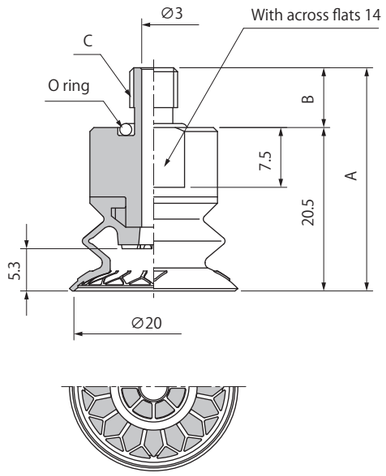
(mm)

PK2B-10



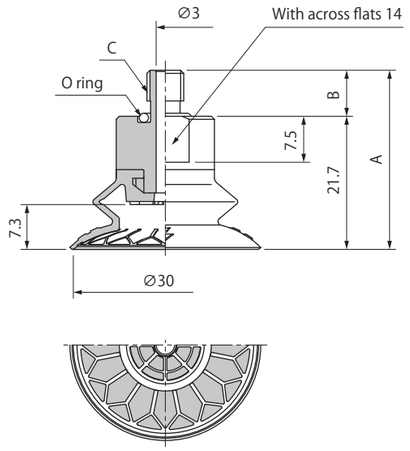
Model	Mass(g)
PK2B-10-T-M5	2.1

PK2B-20



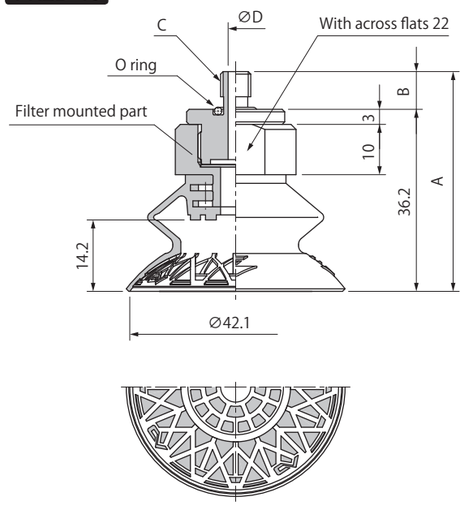
Model	A	B	C	Mass(g)
PK2B-20-T-M6	28	7.5	M6×1.0	6.4
PK2B-20-T-G1	28.5	8	G1/8	7.2

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



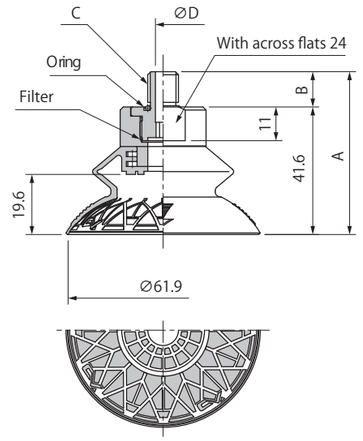
Model	A	B	C	D	Mass(g)
PK2B-40-T-M6(-F)	43.7	7.5	M6×1.0	3	32.1
PK2B-40-T-M10(-F)	47.7	11.5	M10×1.5	5	34.2
PK2B-40-T-M12(-F)	51.2	15	M12×1.75	6	35.3
PK2B-40-T-M16(-F)	46.2	10	M16×1.5	10	33
PK2B-40-T-G2(-F)	45.2	9	G1/4	6	34.2

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

Dimensions

(mm)

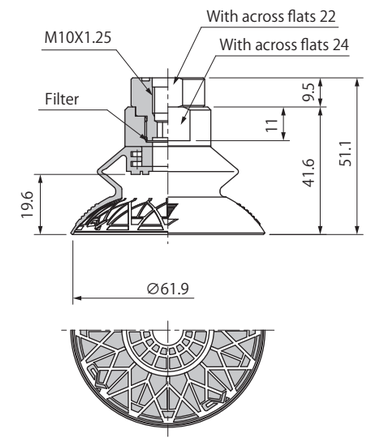
PK2B-60 Male screw



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.

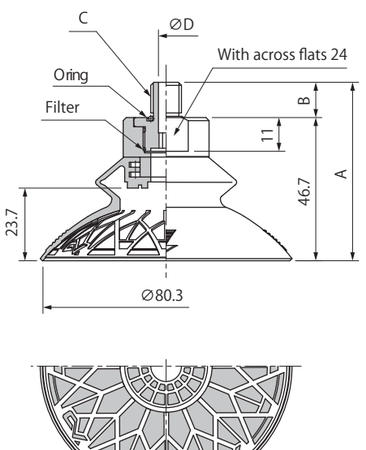
PK2B-60 Female screw



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.

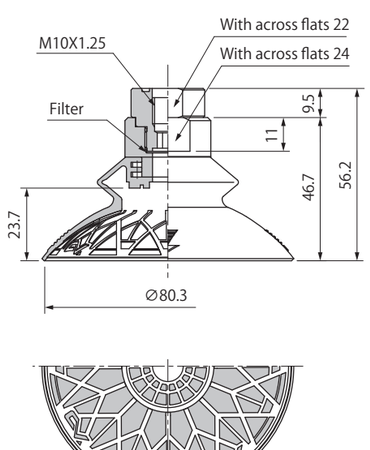
PK2B-80 Male screw



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-80 Female screw

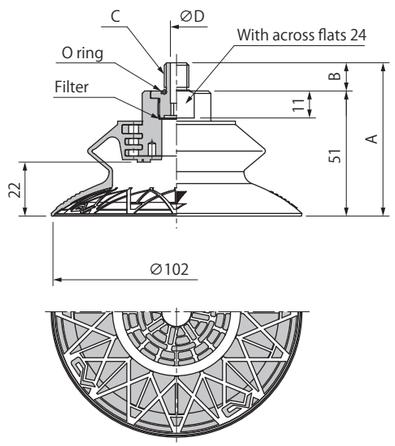


Model	Mass(g)
PK2B-80-T-M10F(-F)	52

Dimensions

(mm)

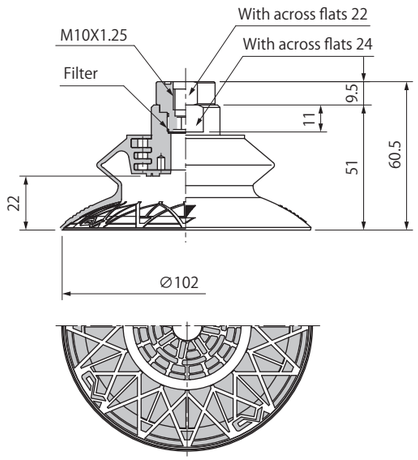
PK2B-100 Male screw



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.

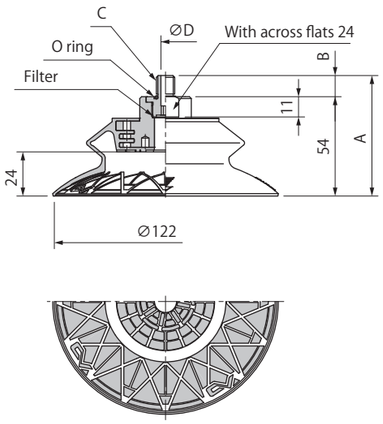
PK2B-100 Female screw



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.

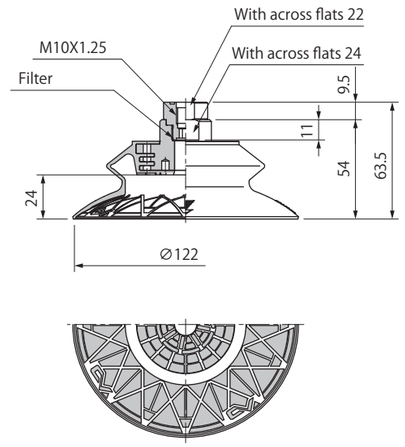
PK2B-120 Male screw



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



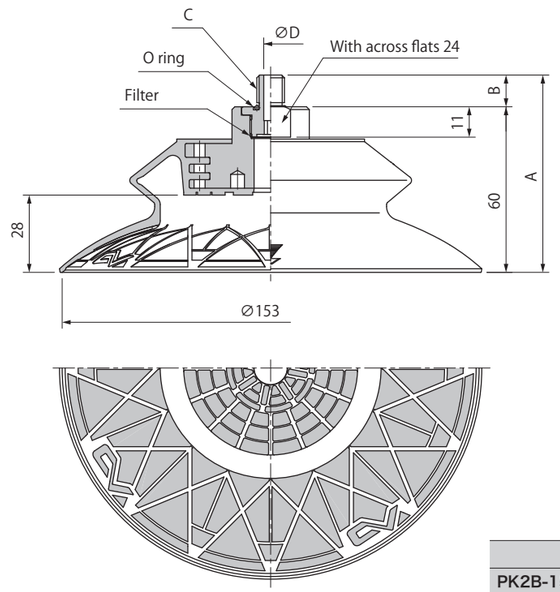
Model	Mass(g)
PK2B-120-T-M10F(-F)	164.2

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

Dimensions

(mm)

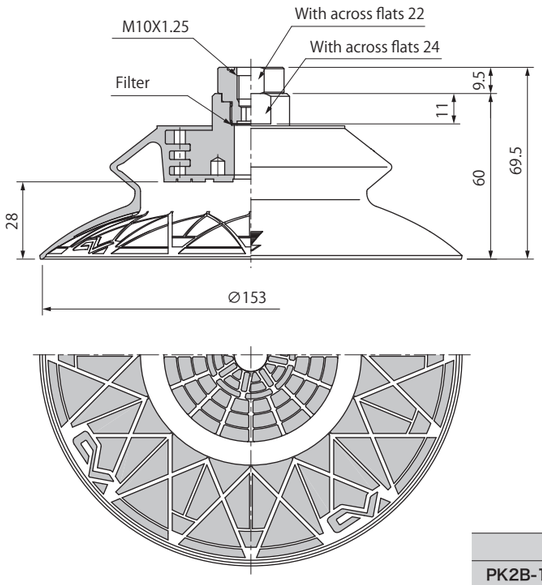
PK2B-150 Male screw



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 diameter×Short diameter)mm

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

Cup material TPU

・Fixed fitting

PK2L — 60X20 — T — M10

①Cup diameter (Long diameter×Short 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	60X20/80X30
100X40	100X40

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	60X20/80X30
M8	M8X1.25	100X40

Suction cup material standard specifications

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

※The material of insert is PA(Polyamide).

Fitting specifications

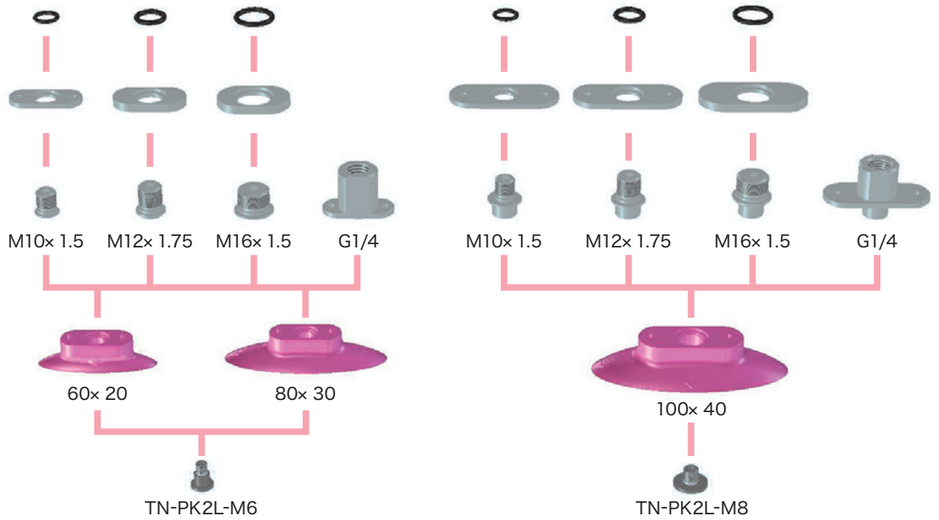
Cup diameter		60X20 / 80X30 / 100X40			
Screw specifications		M10X1.5 Male screw	M12X1.75 Male screw	M16X1.5 Male screw	G1/4 Female screw
Material	Mounted screw	Steel			Aluminum
	Fixed plate	Aluminum			
	Setting screw	Stainless steel			
	Washer	NBR			None

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-T-M10	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-M10		10
PK2L-60X20-T-M12	PK2L-60X20-T	TN-PK2L-M6	PK2L-60X20-K-M12	M12 X 1.75 Male screw	5
PK2L-80X30-T-M12	PK2L-80X30-T				
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	M16 X 1.5 Male screw	5
PK2L-80X30-T-M16	PK2L-80X30-T				
PK2L-100X40-T-M16	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-M16		10
PK2L-60X20-T-G2F	PK2L-60X20-T	TN-PK2L-M6	PK2L-60X20-K-G2F	G1/4 Female screw	5
PK2L-80X30-T-G2F	PK2L-80X30-T				
PK2L-100X40-T-G2F	PK2L-100X40-T	TN-PK2L-M8	PK2L-100X40-K-G2F		10

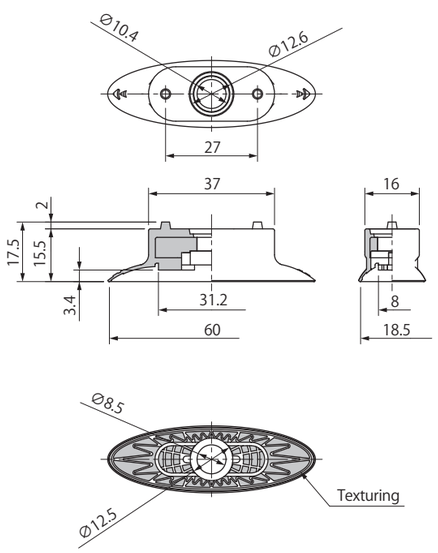
※The recommended torque is only for metal-to-metal tightening.

Assembly picture of suction cup･setting screw

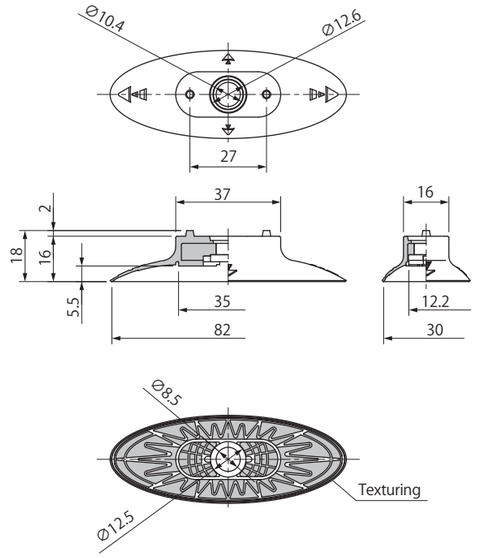


Dimensions

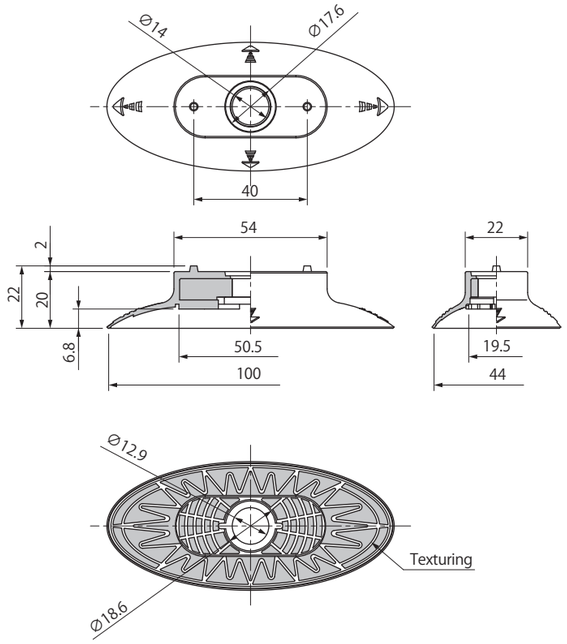
(mm)



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



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

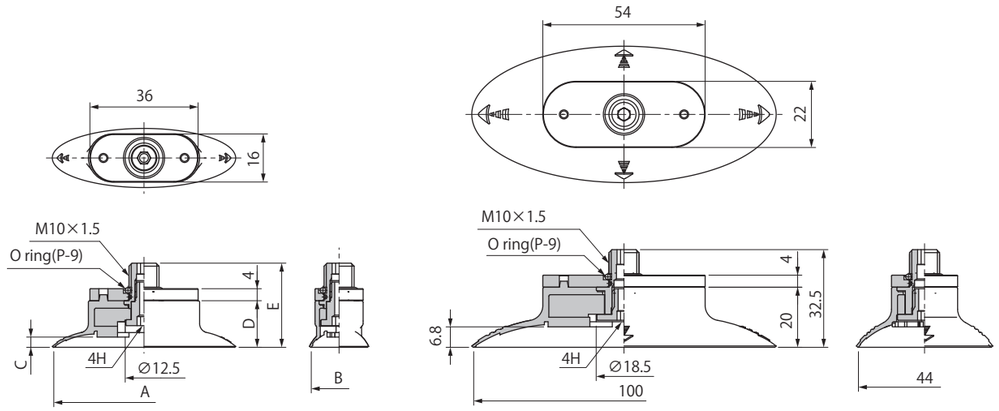


Model	Mass(g)
PK2L-100X40-T	18.8

Fitting with suction cup

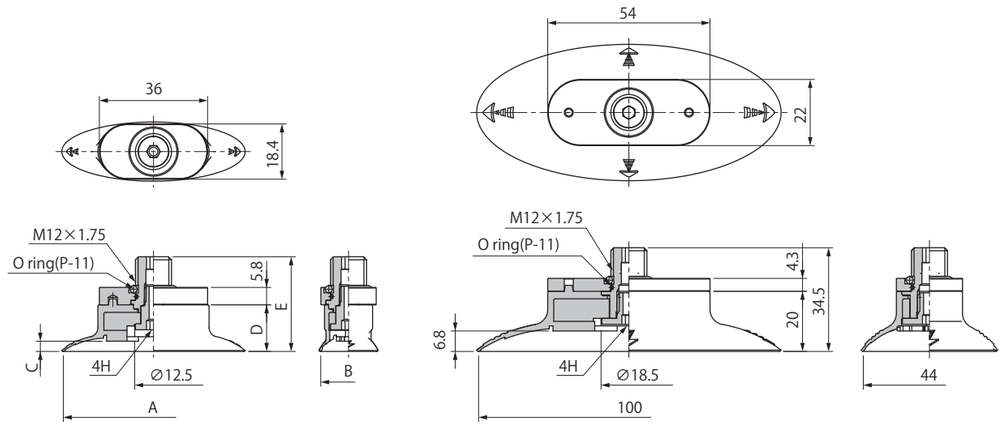
(mm)

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

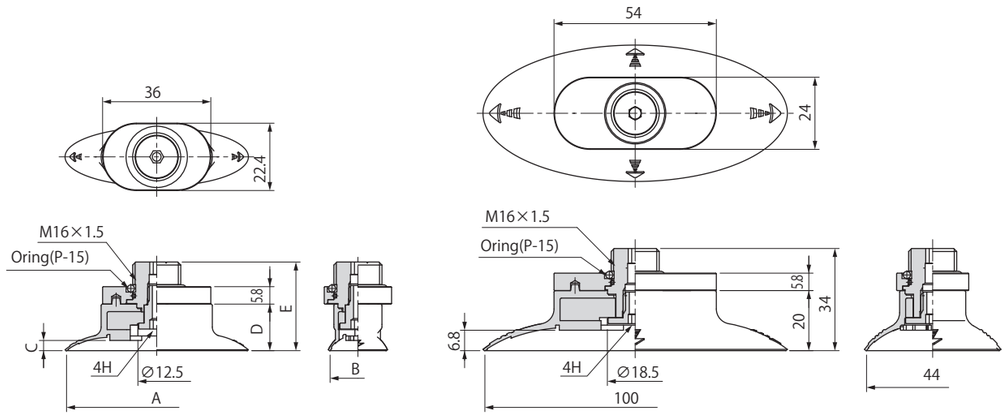


Model	A	B	C	D	E	Mass(g)
PK2L-60X20-T-M12	60	18.5	3.4	15.5	31.5	28.2
PK2L-80X30-T-M12	82	30	5.5	16	32	29.3
PK2L-100X40-T-M12	-	-	-	-	-	50.1

Fitting with suction cup

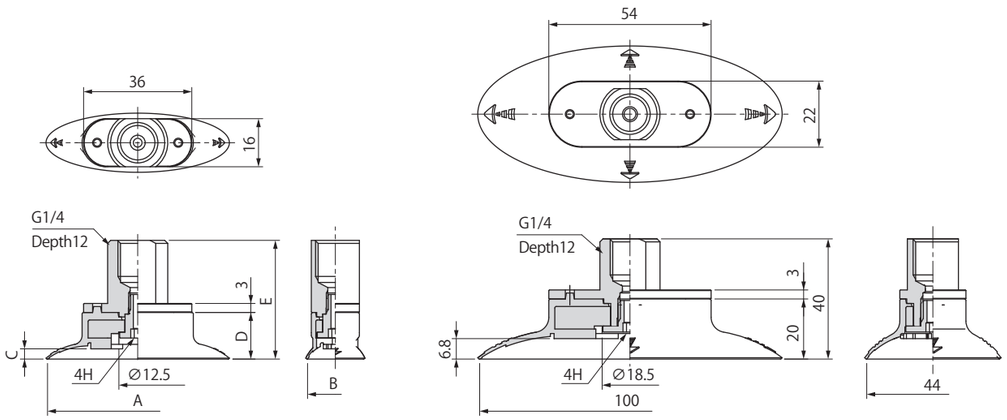
(mm)

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

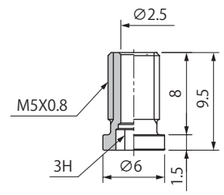


Model	A	B	C	D	E	Mass
PK2L-60X20-T-G2F	60	18.5	3.4	15.5	39.5	25.3
PK2L-80X30-T-G2F	82	30	5.5	16	40	26.4
PK2L-100X40-T-G2F	-	-	-	-	-	43.3

Setting screw

(mm)

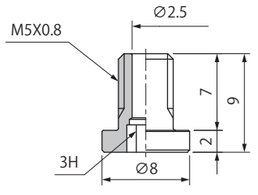
Model TN-PF-10-M5 — Mass 1.0g



Applicable suction cup model
PFG-10-□
PK2-10-T

※□ indicates material of suction cup.

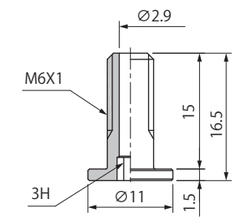
Model TN-PF-15-M5 — Mass 1.4g



Applicable suction cup model
PFG-15-□
PJG-10/15-□
PK215/20-T
PRG-12.5X23-□

※□ indicates material of suction cup.

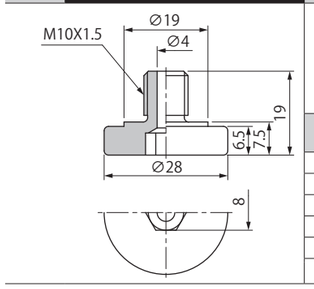
Model TN-PF-25-M6 — Mass 3.3g



Applicable suction cup model
PBG-30/40-□
PDG-20/30/40-□
PFG-20B/25/30/35/40-□
PFOG-/25/30/35/40-□
PHG-30/45-□
PJG-30/35/40-□
PK2-25-T

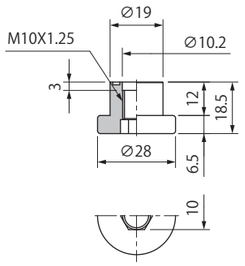
※□ indicates material of suction cup.

Model TN-PK-100-M10 — Mass 34.7g



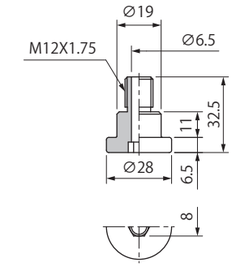
Applicable suction cup model
PK2-60-T
PK2-80-T
PK2-100-T
PK2-120-T
PK2-150-T

Model TN-PK-100-M10F — Mass 45.9g



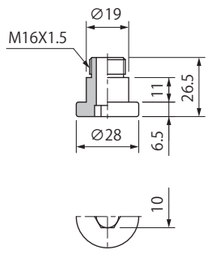
Applicable suction cup model
PK2-60-T
PK2-80-T
PK2-100-T
PK2-120-T
PK2-150-T

Model TN-PK-100-M12 — Mass 55.9g



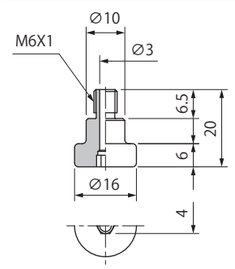
Applicable suction cup model
PK2-60-T
PK2-80-T
PK2-100-T
PK2-120-T
PK2-150-T

Model TN-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-PK2-30-M6 — Mass 13.1g



Applicable suction cup model
PK2-30-T
PK2-50-T