

Flat Cup

RoHS



Standard flat type cup. For workpieces with smooth and even surfaces!



Cardboard



Metal plate



Plastic plate

Wide range of cup sizes.

Round type	φ1	φ1.5	φ2	φ3.5	φ5	φ6	φ8	φ10	φ15	φ20	φ25
	φ30	φ35	φ40	φ50	φ60	φ80	φ95	φ120	φ150	φ200	
Oval type	2×4	2.2×4.2	3.5×7								

Various fittings for many kinds of applications.

Fixed fitting



Spring fitting



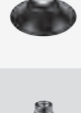
Compact type fitting



Suction Cup

PFG		Cup size (mm) φ 1 ~ 200	P.279
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Fitting

Type	Applicable cup size (mm)	Stroke (mm)	Vacuum port	Piping · Connector	Page
Cup with compact fixed fitting PS - □ - F	 φ 1.5 ~ 50	N/A	Top	Female screw	P.285
Cup with compact fixed fitting PS - □ - M	 φ 1.5 ~ 50	N/A	Top	Male screw	P.285
Cup with fixed fitting PFTK	 φ 1.5 ~ 50 φ 60 ~ 95	N/A	Top	Barb Female screw	P.289
Cup with fixed fitting PFYK	 φ 1.5 ~ 50 φ 60 ~ 200	N/A	Side	Barb Female screw	P.289
Cup with compact spring fitting PSS	 φ 1.5 ~ 15	3, 5	Top	Male screw	P.295
Cup with spring fitting NAPFTS	 φ 1.5 ~ 8 φ 10 ~ 15 φ 20 ~ 50 φ 60 ~ 95 φ 120 ~ 200	3, 6 3, 10, 15 6, 15, 30 10, 30, 50 20, 50	Top	Female screw Push-in Barb Female screw	P.297
Cup with spring fitting NAPFYS	 φ 1.5 ~ 8 φ 10 ~ 15 φ 20 ~ 50 φ 60 ~ 95 φ 120 ~ 200	3, 6 3, 10, 15 6, 15, 30 10, 30, 50 20, 50	Side	Female screw Push-in Barb Female screw	P.297
Cup with non-rotation spring fitting NAPFTH	 φ 1.5 ~ 15 φ 20 ~ 50	3, 10, 15 6, 15, 30	Top	Female screw Push-in Barb	P.303
Cup with non-rotation spring fitting NAPFYH	 φ 1.5 ~ 15 φ 20 ~ 50	3, 10, 15 6, 15, 30	Side	Female screw Push-in Barb	P.303
Setting screw	 φ 1.5 ~ 50	—	—	—	P.503

How to Order



PFG — 2A — N

①

②

① Cup Size(mm)

Symbol	Cup size	Symbol	Cup size	Symbol	Cup size
1	φ 1 Note2	5	φ 5 Note2	30	φ 30
1.5A	φ 1.5	6A	φ 6	35	φ 35
1.5	φ 1.5 Note2	6	φ 6 Note2	40	φ 40
2A	φ 2	8A	φ 8	50	φ 50
2	φ 2 Note2	8	φ 8 Note2	60	φ 60
2X4A	2X4 Note1	10A	φ 10	80	φ 80
2X4	2.2X4.2 Note1,2	10	φ 10 Note2	95	φ 95
3.5A	φ 3.5	15A	φ 15	120	φ 120
3.5	φ 3.5 Note2	15	φ 15	150	φ 150
3.5X7A	φ 3.5X7 Note1	20	φ 20	200	φ 200
3.5X7	φ 3.5X7 Note1,2	20B	φ 20		
5A	φ 5	25	φ 25		

Note1) Oval cup.
Note2) Sale of cup only.

② Cup Rubber Material

Symbol	Material
N	NBR (Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
SE	Conductive silicone rubber

※Please consult with us for other material.

Cup Rubber Material Standard Specifications

Symbol	Material	Hardness (A/s)	Ambient temperature (°C)	Color	Volume resistivity Note1,2
N	NBR(Nitrile rubber)	55	-26 ~ 120	Black	-
S	Silicone rubber	55	-60 ~ 250	Translucent white	-
U	Urethane rubber	55	-20 ~ 75	Blue	-
F	Fluorine rubber	70	-10 ~ 230	Black with white dot	-
NE	Conductive NBR (Nitrile rubber)	70	-26 ~ 120	Black with blue dot	10 ² ~ 10 ³ Ω · cm
SE	Conductive silicone rubber	55	-60 ~ 250	Black with red dot	10 ² ~ 10 ⁴ Ω · cm

Note1) Volume resistivity shows conductivity, resistance value is per cm³.

Note2) It is the measured value of in our designated test piece.

Applicable Rubber Material Table

Material	Color	Symbol	Round type																												Oval type							
			1	1.5A	1.5	2A	2	3.5A	3.5	5A	5	6A	6	8A	8	10A	10	15A	15	20	20B	25	30	35	40	50	60	80	95	120	150	200	2X4	2X4A	3.5X7	3.5X7A		
NBR (Nitrile rubber)	Black	N	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Silicone rubber	Translucent white	S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Urethane rubber	Blue	U	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Fluorine rubber	Black with white dot	F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Conductive NBR (Nitrile rubber)	Black with blue dot	NE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	●	●	●
Conductive silicone rubber	Black with red dot	SE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	●	●	●

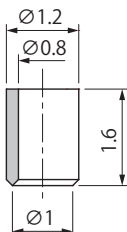
●: In stock ○Made to order ×: None

※Please consult with us for other material.

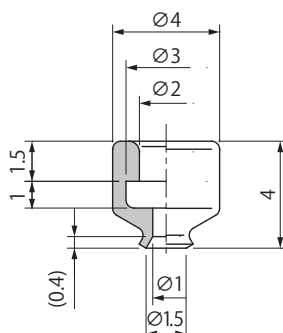
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(mm)

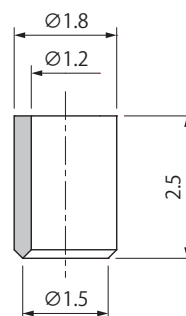
PFG-1



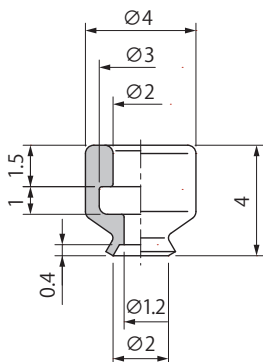
PFG-1.5A



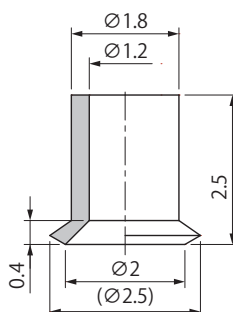
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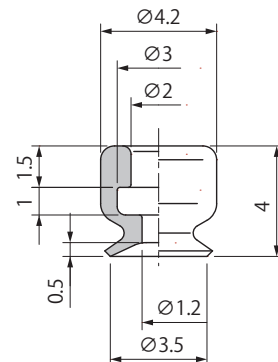
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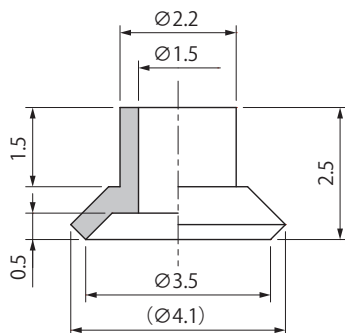
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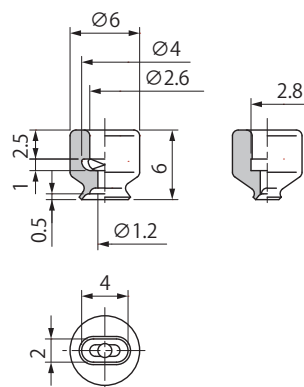
PFG-3.5A



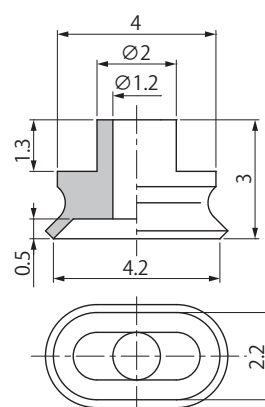
PFG-3.5



PFG-2X4A



PFG-2x4



Weight

(g)

Model \ Material	N	S	U	F	NE	SE	Applicable setting screw (Screw specifications)
PFG-1.5A	0.1	0.1	0.1	0.1	0.1	0.1	TN-PS-2A-M3 (Male M3X0.5)
PFG-2A	0.1	0.1	0.1	0.1	0.1	0.1	TN-PS-2A-M3F (Female M3X0.5)
PFG-3.5A	0.1	0.1	0.1	0.1	0.1	0.1	TN-PS-2A-M5 (Male M5X0.8)
PFG-2X4A	0.2	0.2	0.2	0.3	0.2	0.2	TN-PS-2X4A-M3 (Male M3X0.5) TN-PS-2X4A-M3F (Female M3X0.5)
PFG-1	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-1.5	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-2	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-3.5	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-2X4	0.1	0.1	0.1	0.1	0.1	0.1	-

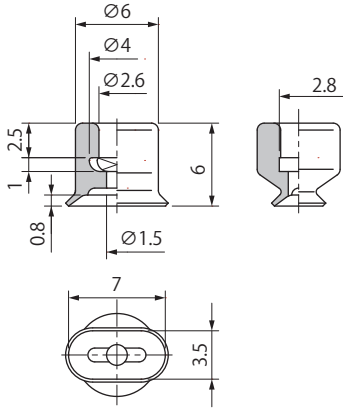
Symbol	Material
N	NBR(Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
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※Please refer to P.503 for setting screw detailed specifications.

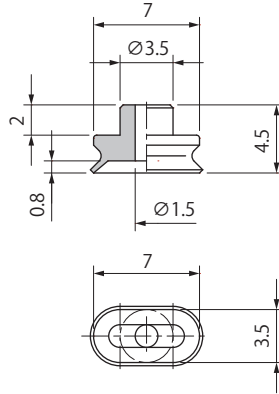
Dimensions

(mm)

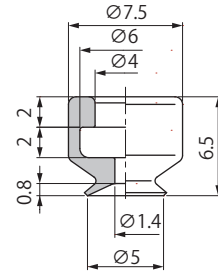
PFG-3.5X7A



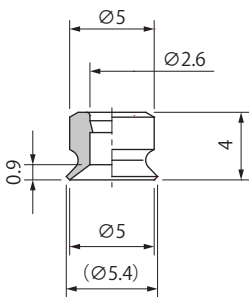
PFG-3.5X7



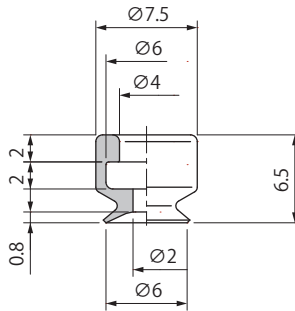
PFG-5A



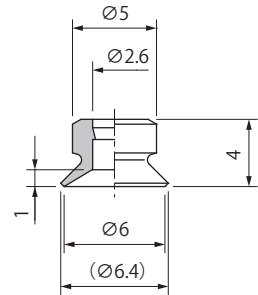
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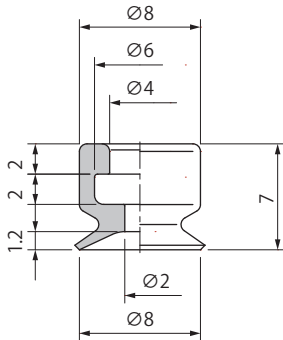
PFG-6A



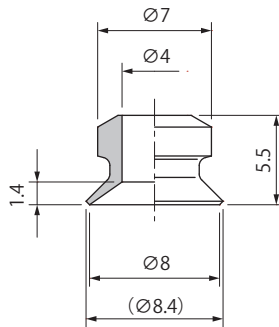
PFG-6



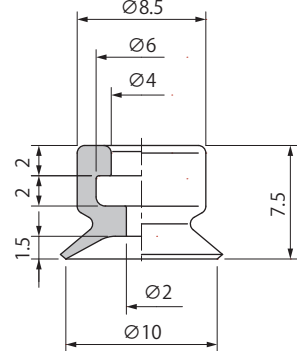
PFG-8A



PFG-8



PFG-10A



Weight

(g)

Model \ Material	N	S	U	F	NE	SE	Applicable setting screw (Screw specifications)
PFG-3.5X7A	0.2	0.2	0.2	0.3	0.2	0.2	TN-PS-2X4A-M3 (Male M3X0.5) TN-PS-2X4A-M3F (Female M3X0.5)
PFG-5A	0.2	0.2	0.2	0.3	0.2	0.2	TN-PS-10-M5 (Male M5X0.8) TN-PS-10-M5 (Female M5X0.8)
PFG-6A	0.2	0.2	0.2	0.3	0.2	0.2	
PFG-8A	0.3	0.3	0.3	0.4	0.3	0.3	
PFG-10A	0.4	0.4	0.4	0.6	0.4	0.4	
PFG-3.5X7	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-5	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-6	0.1	0.1	0.1	0.1	0.1	0.1	-
PFG-8	0.1	0.1	0.2	0.2	0.2	0.1	-

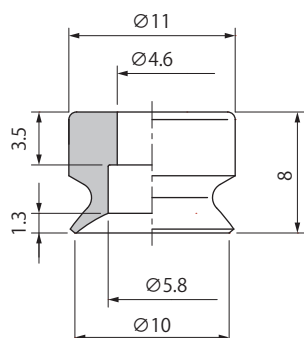
Symbol	Material
N	NBR(Nitrile rubber)
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※Please refer to P.503 for setting screw detailed specifications.

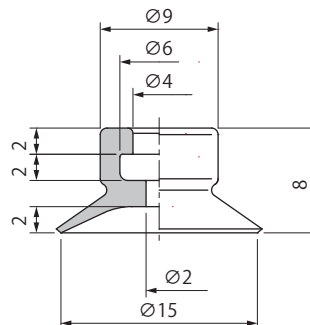
Dimensions

(mm)

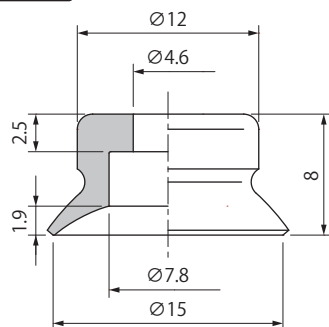
PFG-10



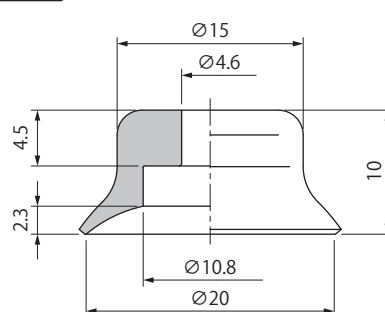
PFG-15A



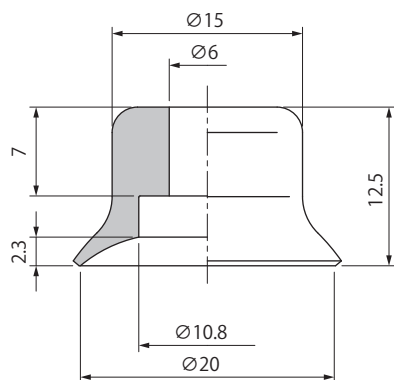
PFG-15



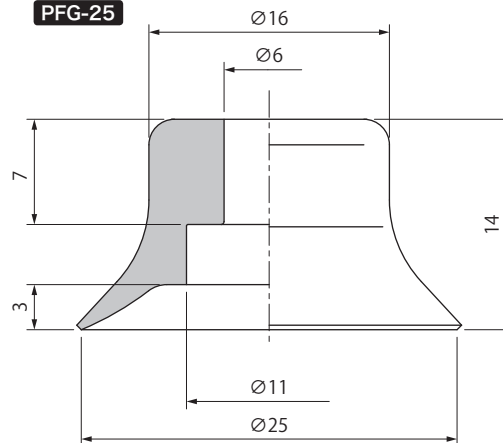
PFG-20



PFG-20B



PFG-25



Weight

(g)

Model \ Material	N	S	U	F	NE	SE	Applicable setting screw (Screw specifications)
PFG-10	0.5	0.5	0.6	0.8	0.6	0.5	TN-PF-10-M5 (Male M5X0.8)
PFG-15A	0.5	0.5	0.5	0.8	0.5	0.5	TN-PS-10-M5 (Male M5X0.8) TN-PS-10-M5F (Female M5X0.8)
PFG-15	0.7	0.7	0.7	1.1	0.7	0.7	TN-PF-15-M5 (Male M5X0.8)
PFG-20	1.5	1.5	1.6	2.4	1.6	1.5	TN-PF-20-M5 (Male M5X0.8)
PFG-20B	1.9	1.9	2.0	3.0	2.0	1.9	TN-PF-25-M6 (Male M6X1.0)
PFG-25	2.6	2.6	2.8	4.2	2.8	2.6	

※Please refer to P.503 for setting screw detailed specifications.

Symbol	Material
N	NBR(Nitrile rubber)
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02
Suction Cup

PA

PB

PC

PCD

PD

PF

PFO

PH

PJ

CORE

PK2

PK2B

PK2L

PL

PN

PN-B

PP

PQ

PR

PU

PW

RA

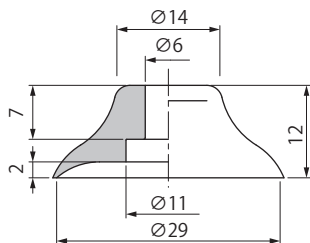
SM

TN

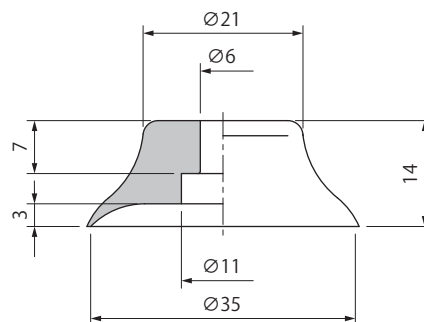
Dimensions

(mm)

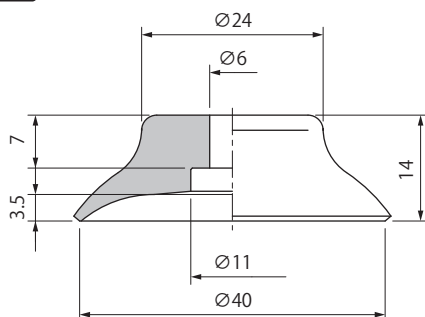
PFG-30



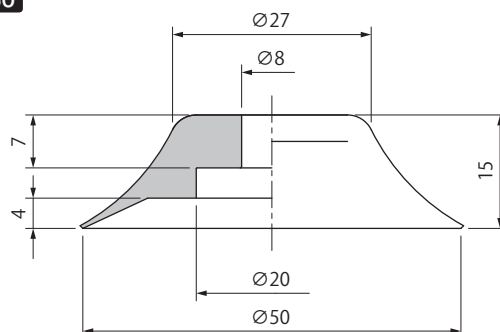
PFG-35



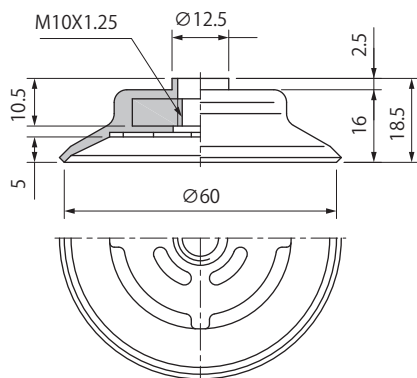
PFG-40



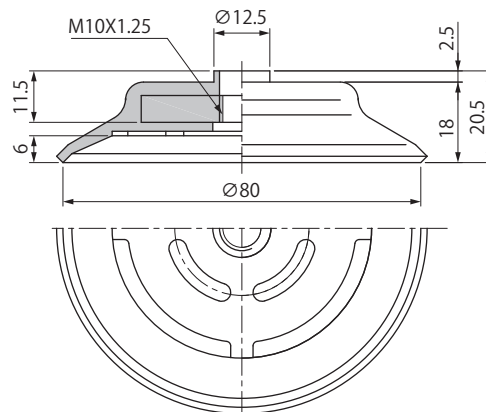
PFG-50



PFG-60



PFG-80



Weight

(g)

Model \ Material	N	S	U	F	NE	SE	Applicable setting screw (Screw specifications)
PFG-30	3.2	3.2	3.4	5.2	3.4	3.2	TN-PF-25-M6 (Male M6X1.0)
PFG-35	6.0	6.0	6.3	9.6	6.3	6.0	
PFG-40	7.5	7.5	7.9	12.0	7.9	7.5	
PFG-50	8.9	8.9	9.4	14.3	9.4	8.9	TN-PF-50-M6 (Male M6X1.0) TN-PF-50-M8 (Male M8X1.25)
PFG-60	23.4	23.4	24.1	31.5	24.1	23.4	-
PFG-80	51.0	51.0	52.4	67.2	52.4	51.0	-

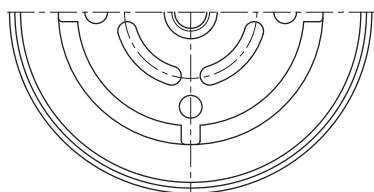
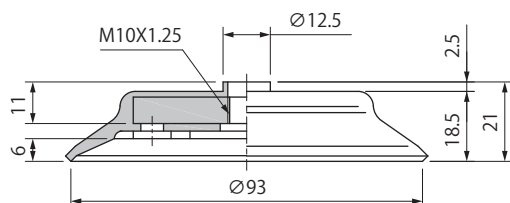
※Please refer to P.503 for setting screw detailed specifications.

Symbol	Material
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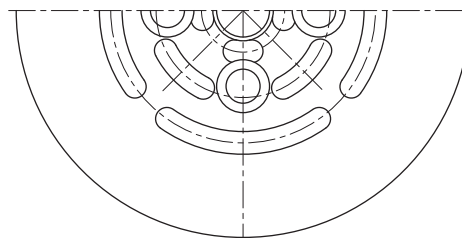
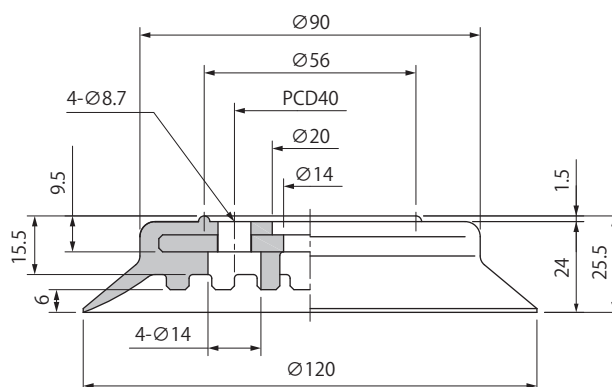
Dimensions

(mm)

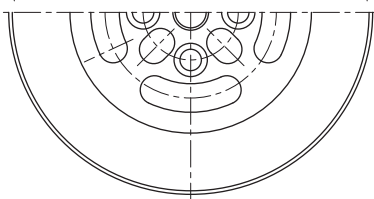
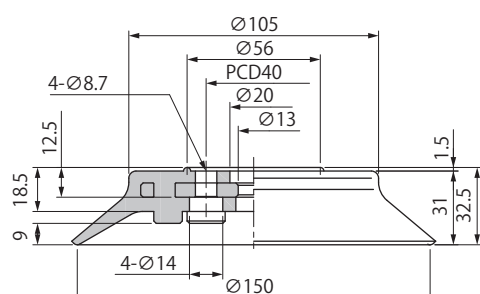
PFG-95



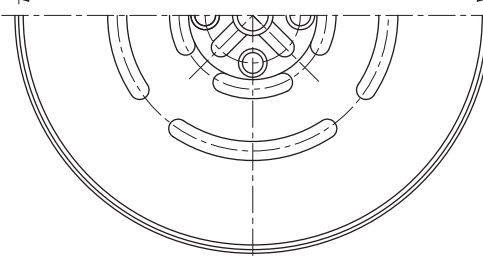
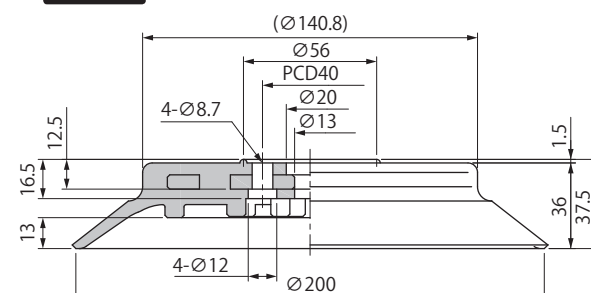
PFG-120



PFG-150



PFG-200



Weight

(g)

Model \ Material	N	S	U	F	NE	SE
PFG-95	84.6	84.6	86.7	109.6	86.7	84.6
PFG-120	246.0	246.0	250.8	303.6	250.8	246.0
PFG-150	475.0	475.0	484.7	591.4	484.7	475.0
PFG-200	823.0	823.0	841.7	1046.8	841.7	823.0

Symbol	Material
N	NBR(Nitrile rubber)
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PS Cup with Compact Fixed Fitting

Male Screw

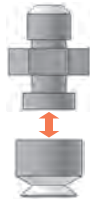


Female Screw



Simple construction of the cup and the screw.

φ1.5~10 (PFG-□A type only)



Screw and the cup can be disassembled

Attach the cup directly to the screw



Model number	Cup	Setting screw	Screw size
PS-1.5A-M-□	PFG-1.5A-□	TN-PS-2A-M3	M3X0.5
PS-2A-M-□	PFG-2A-□		
PS-3.5A-M-□	PFG-3.5A-□		
PS-5A-M-□	PFG-5A-□	TN-PS-10-M5	M5X0.8
PS-6A-M-□	PFG-6A-□		
PS-8A-M-□	PFG-8A-□		
PS-10A-M-□	PFG-10A-□		
PS-2X4A-M-□	PFG-2X4A-□	TN-PS-2X4A-M3	M3X0.5
PS-3.5X7A-M-□	PFG-3.5X7A-□		

Model number	Cup	Setting screw	Screw size
PS-1.5A-F-□	PFG-1.5A-□	TN-PS-2A-M3F	M3X0.5
PS-2A-F-□	PFG-2A-□		
PS-3.5A-F-□	PFG-3.5A-□		
PS-5A-F-□	PFG-5A-□	TN-PS-10-M5F	M5X0.8
PS-6A-F-□	PFG-6A-□		
PS-8A-F-□	PFG-8A-□		
PS-10A-F-□	PFG-10A-□		
PS-2X4A-F-□	PFG-2X4A-□	TN-PS-2X4A-M3F	M3X0.5
PS-3.5X7A-F-□	PFG-3.5X7A-□		

φ15~50

PS-15-M-□
PS-20-M-□
PS-25-M-□
PS-30-M-□
PS-35-M-□
PS-40-M-□
PS-50-M-□



R1/8

Screw and the cup are fixed

Screw and the cup can not be disassembled

Rp1/8 depth 9



PS-15-F-□
PS-20-F-□
PS-25-F-□
PS-30-F-□
PS-35-F-□
PS-40-F-□
PS-50-F-□

※□ in the table indicates the cup material.

How to Order

PS — 2A — M — N

① Cup Size (mm)			
1.5A	φ 1.5	10A	φ 10
2A	φ 2	15	φ 15
2X4A	2X4 Note1	20	φ 20
3.5A	φ 3.5	25	φ 25
3.5X7A	3.5X7 Note1	30	φ 30
5A	φ 5	35	φ 35
6A	φ 6	40	φ 40
8A	φ 8	50	φ 50

② Screw Type	
M	Male screw
F	Female screw

③ Cup Rubber Material	
N	NBR (Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
SE	Conductive silicone rubber

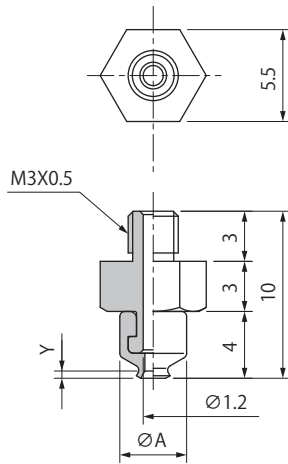
※ Please consult with us for other material.

Note1) Oval cup.

Dimensions

(mm)

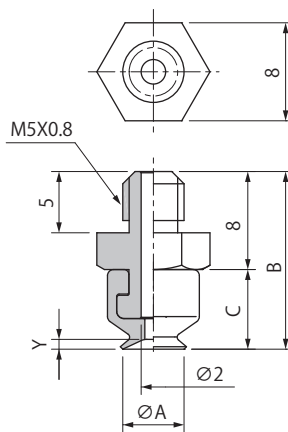
PS-1.5A/2A/3.5A-M



Model number	A	Y	Weight (g)
PS-1.5A-M- □	1.5	0.4	1
PS-2A-M- □	2	0.5	
PS-3.5A-M- □	3.5		

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

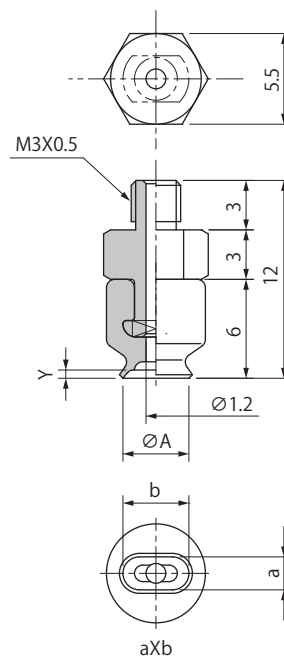
PS-5A/6A/8A/10A-M



Model number	A	B	C	Y	Weight (g)
PS-5A-M-□	5	14.5	6.5	0.8	1.5
PS-6A-M-□	6				
PS-8A-M-□	8	15	7	1.2	
PS-10A-M-□	10	15.5	7.5	1.5	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

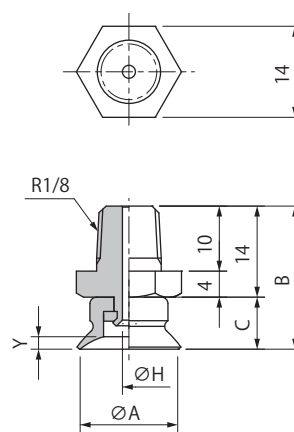
PS-2X4A/3.5X7A-M



Model number	A	Y	Weight (g)
PS-2X4A-M-□	2X4	0.5	1
PS-3.5X7A-M-□	3.5X7	0.8	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.
 ※ aXb indicates A size of oval cup.

PS-15/20/25/30/35/40/50-M



Model number	A	B	C	H	Y	Weight (g)
PS-15-M- ☐	15	22	8	2	1.9	8
PS-20-M- ☐	20	24	10		2.3	
PS-25-M- ☐	25	28	14	3	3	12
PS-30-M- ☐	29	26	12		2	
PS-35-M- ☐	35	28	14		3	
PS-40-M- ☐	40				3.5	
PS-50-M- ☐	50	29	15	4	4	17

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

02

Suction Cup

PA

PB

PC

PCD

PD

PF

PFO

PH

PJ

CORE

PK2

PK2B

PK2L

PL

PN

PN-B

PP

PQ

PR

PU

PW

RA

SM

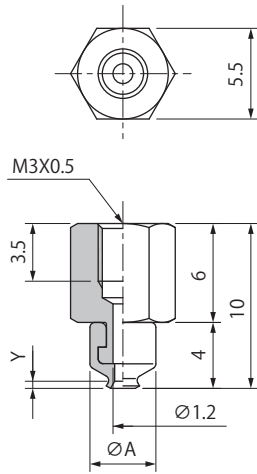
TN

PS Cup with Compact Fixed Fitting

Dimensions

(mm)

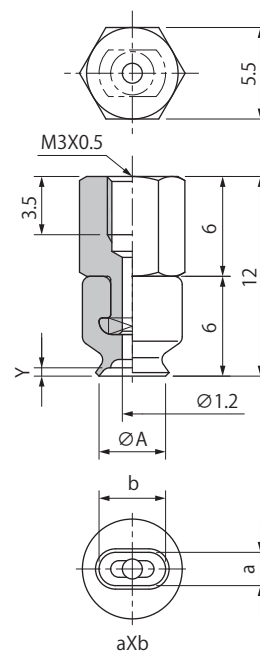
PS-1.5A/2A/3.5A-F



Model number	A	Y	Weight (g)
PS-1.5A-F-□	1.5	0.4	1.5
PS-2A-F-□	2		
PS-3.5A-F-□	3.5	0.5	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) is selected.

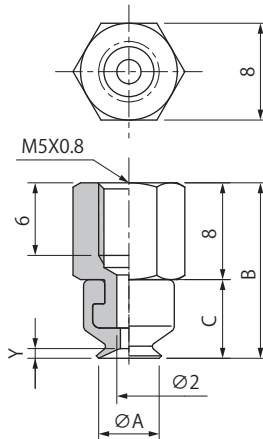
PS-2X4A/3.5X7A-F



Model number	A	Y	Weight (g)
PS-2X4A-F-□	2X4	0.5	1.5
PS-3.5X7A-F-□	3.5X7	0.8	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) is selected.
※ aXb indicates A size of oval cup.

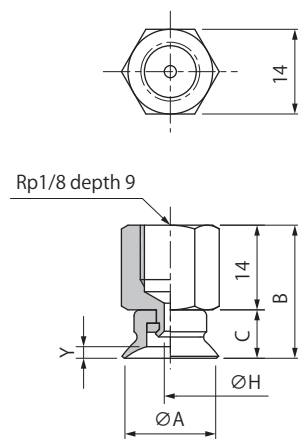
PS-5A/6A/8A/10A-F



Model number	A	B	C	Y	Weight (g)
PS-5A-F-□	5	14.5	6.5	0.8	2.5
PS-6A-F-□	6				
PS-8A-F-□	8	15	7	1.2	
PS-10A-F-□	10	15.5	7.5	1.5	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) is selected.

PS-15/20/25/30/35/40/50-F



Model number	A	B	C	H	Y	Weight (g)
PS-15-F-□	15	22	8	2	1.9	9
PS-20-F-□	20	24	10	3	2.3	
PS-25-F-□	25	28	14		13	
PS-30-F-□	29	26	12			2
PS-35-F-□	35	28	14			3
PS-40-F-□	40					3.5
PS-50-F-□	50	29	15	4	4	18

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) is selected.

02
Suction Cup

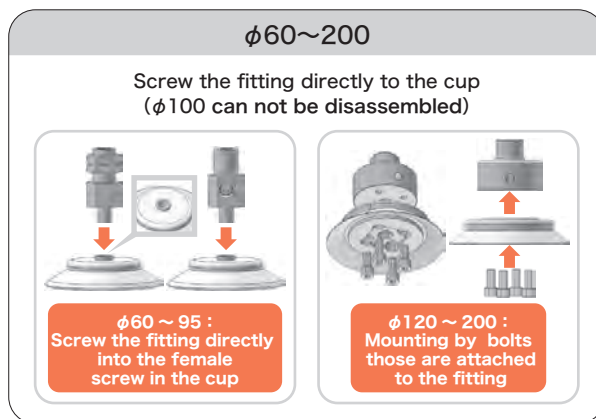
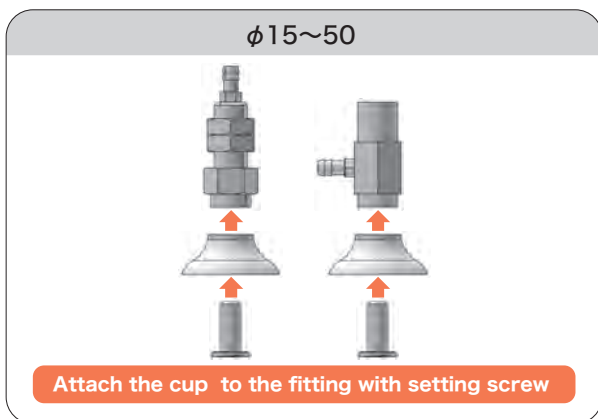
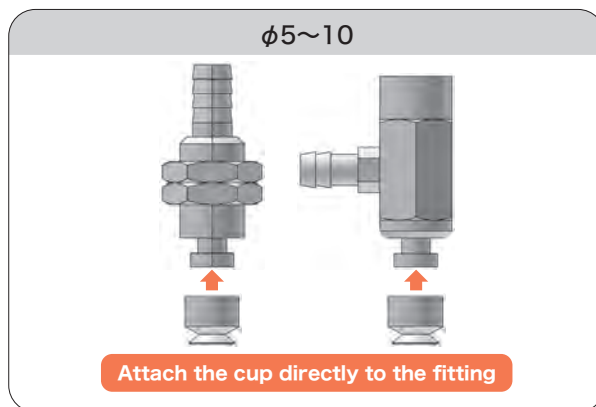
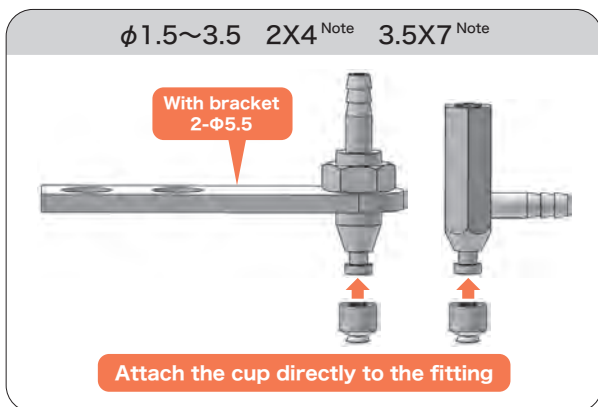
PA
PB
PC
PCD
PD
PF
PFO
PH
PJ
CORE
PK2
PK2B
PK2L
PL
PN
PN-B
PP
PQ
PR
PU
PW
RA
SM
TN

PFTK·YK Cup with Fixed Fitting

Suction Cup
Flat Cup



Consisting of fitting, setting screw, suction cup.



Note) The cup is integrated to the fitting with adhesive

How to Order

PF T K - 2A - N

① ② ③

① Vacuum Port

T	Top ^{Note1}
Y	Side

Note1) $\phi 1.5 \sim \phi 95$ only.

② Cup Size (mm)

Symbol	Cup size	Symbol	Cup size	Symbol	Cup size
1.5A	$\phi 1.5$	8A	$\phi 8$	40	$\phi 40$
2A	$\phi 2$	10A	$\phi 10$	50	$\phi 50$
2X4	2.2X4.2 ^{Note1}	15	$\phi 15$	60	$\phi 60$
3.5A	$\phi 3.5$	20	$\phi 20$	80	$\phi 80$
3.5X7	3.5X7 ^{Note1}	25	$\phi 25$	95	$\phi 95$
5A	$\phi 5$	30	$\phi 30$	100	$\phi 100$ ^{Note2}
6A	$\phi 6$	35	$\phi 35$	120	$\phi 120$ ^{Note2}
				150	$\phi 150$ ^{Note2}
				200	$\phi 200$ ^{Note2}

Note1) Oval cup.

Note2) Side port only.

③ Cup Rubber Material

Symbol	Material
N	NBR(Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
SE	Conductive silicone rubber

※ Please consult with us for other material.

Combination Table

Top Port

Model number	Cup	Setting screw	Fitting	Piping specifications		
PFTK-1.5A- □	PFG-1.5A- □	Attach the cup directly to the fitting	PFTK-1.5A-K	Barb	ϕ 4X2.5	
PFTK-2A- □	PFG-2A- □					
PFTK-3.5A- □	PFG-3.5A- □					
PFTK-2X4- □	PFG-2X4- □	The cup are integrated to the fitting with adhesive	PFTK-2X4-K		ϕ 6X4	
PFTK-3.5X7- □	PFG-3.5X7- □		PFTK-3.5X7-K			
PFTK-5A- □	PFG-5A- □	Attach the cup directly to the fitting	PFTK-5A-K			
PFTK-6A- □	PFG-6A- □					
PFTK-8A- □	PFG-8A- □		PFTK-10A-K			
PFTK-10A- □	PFG-10A- □					
PFTK-15- □	PFG-15- □	TN-PF-15-M5	PFTK-15-K			
PFTK-20- □	PFG-20- □	TN-PF-20-M5				
PFTK-25- □	PFG-25- □	TN-PF-25-M6	PFTK-25-K			
PFTK-30- □	PFG-30- □					
PFTK-35- □	PFG-35- □					
PFTK-40- □	PFG-40- □					
PFTK-50- □	PFG-50- □	TN-PF-50-M8	PFTK-50-K			
PFTK-60- □	PFG-60- □	Screw the fitting directly into the female screw in the cup	PFTK-60-K	Rc1/8 (Female)	-	
PFTK-80- □	PFG-80- □					
PFTK-95- □	PFG-95- □					

※□ in the table indicates the cup material.

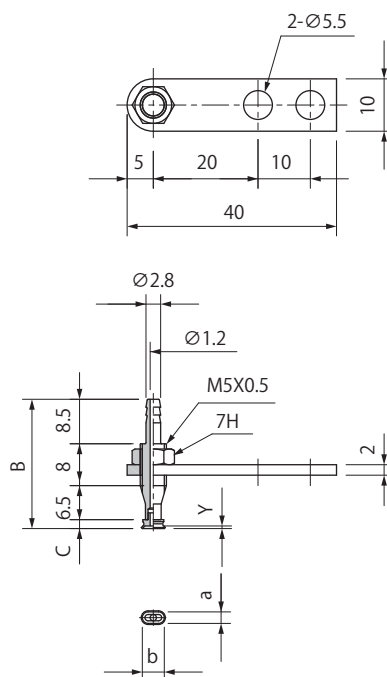
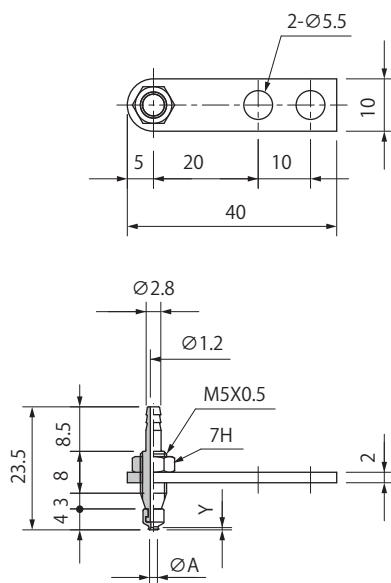
Side Port

Model number	Cup	Setting screw	Fitting	Piping specifications	
PFYK-1.5A- □	PFG-1.5A- □	Attach the cup directly to the fitting	PFYK-1.5A-K	Barb	φ 4X2.5
PFYK-2A- □	PFG-2A- □				
PFYK-3.5A- □	PFG-3.5A- □				
PFYK-2X4- □	PFG-2X4- □	The cup are integrated to the fitting with adhesive	PFYK-2X4-K		φ 6X4
PFYK-3.5X7- □	PFG-3.5X7- □		PFYK-3.5X7-K		
PFYK-5A- □	PFG-5A- □	Attach the cup directly to the fitting	PFYK-5A-K		
PFYK-6A- □	PFG-6A- □				
PFYK-8A- □	PFG-8A- □				
PFYK-10A- □	PFG-10A- □				
PFYK-15- □	PFG-15- □	TN-PF-15-M5	PFYK-15-K		
PFYK-20- □	PFG-20- □	TN-PF-20-M5			
PFYK-25- □	PFG-25- □	TN-PF-25-M6	PFYK-25-K		
PFYK-30- □	PFG-30- □				
PFYK-35- □	PFG-35- □				
PFYK-40- □	PFG-40- □				
PFYK-50- □	PFG-50- □	TN-PF-50-M8	PFYK-50-K		
PFYK-60- □	PFG-60- □	Screw the fitting directly into the female screw in the cup	PFYK-60-K	Rc1/8 (Female)	-
PFYK-80- □	PFG-80- □				
PFYK-95- □	PFG-95- □				
PFYK-100- □	Cup and fitting can not be disassembled				
PFYK-120- □	PFG-120- □	Mounting by bolts(4 pieces) those are attached to the fitting	PFYK-120-K		
PFYK-150- □	PFG-150- □				
PFYK-200- □	PFG-200- □				

※□ in the table indicates the cup material.

(mm)

Top Port PFTK-2X4/3.5X7



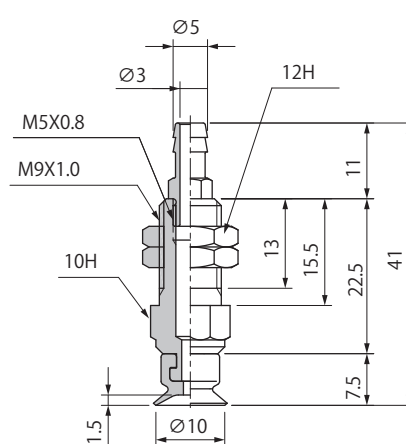
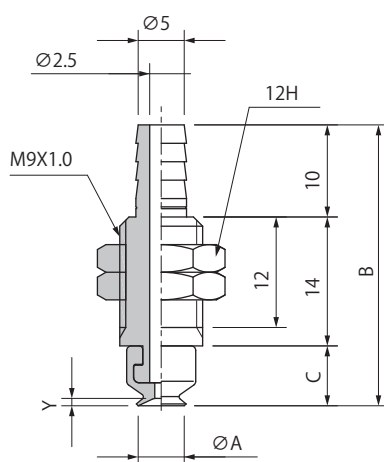
Model number	A	Y	Weight (g)
PFTK-1.5A- ☐	1.5	0.4	8
PFTK-2A- ☐	2		
PFTK-3.5A- ☐	3.5	0.5	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.

Model number	A	B	C	Y	Weight (g)
PFTK-2X4- □	2.2X4.2	24.7	1.7	0.5	8
PFTK-3.5X7- □	3.5X7	25.5	2.5	0.8	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.
 ※ aXb indicates A size of oval cup.

Top Port PFTK-10A



Model number	A	B	C	Y	Weight (g)
PFTK-5A- ☐	5	30.5	6.5	0.8	11
PFTK-6A- ☐	6				
PFTK-8A- ☐	8	31	7	1.2	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.

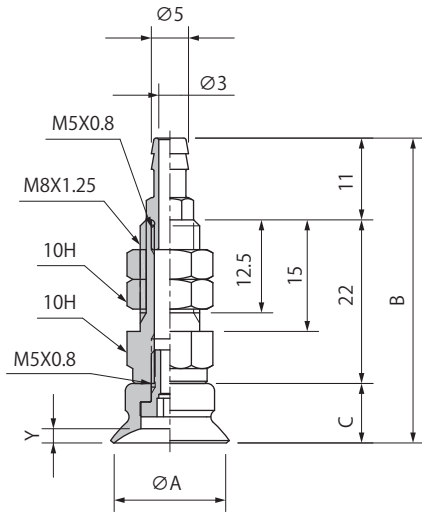
Model number	Weight (g)
PFTK-10A-□	15

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.

Dimensions

(mm)

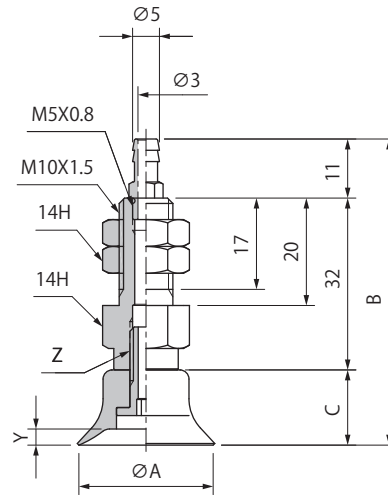
Top Port PFTK-15/20



Model number	A	B	C	Y	Weight (g)
PFTK-15-□	15	41	8	1.9	20
PFTK-20-□	20	43	10	2.3	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

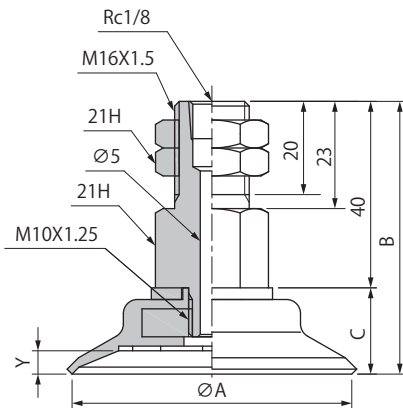
Top Port PFTK-25/30/35/40/50



Model number	A	B	C	Y	Z	Weight (g)
PFTK-25-□	25	57	14	3.0	M6X1.0	40
PFTK-30-□	29	55	12	2.0		
PFTK-35-□	35	57	14	3.0		
PFTK-40-□	40			3.5	M8X1.25	50
PFTK-50-□	50	58	15	4.0		

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

Top Port PFTK-60/80/95



Model number	A	B	C	Y	Weight (g)
PFTK-60-□	60	58.5	18.5	5	130
PFTK-80-□	80	60.5	20.5	6.0	170
PFTK-95-□	93	61	21		220

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

02
Suction Cup

PA

PB

PC

PCD

PD

PF

PFO

PH

PJ

CORE

PK2

PK2B

PK2L

PL

PN

PN-B

PP

PQ

PR

PU

PW

RA

SM

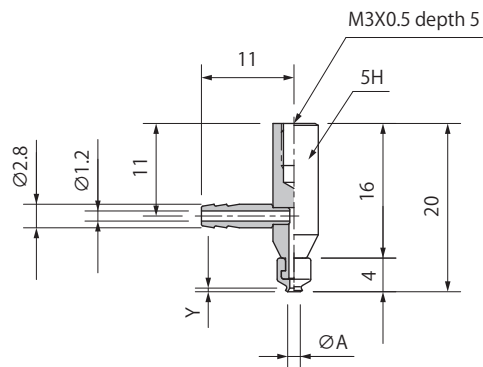
TN

PFTK·YK Cup with Fixed Fitting

Dimensions

(mm)

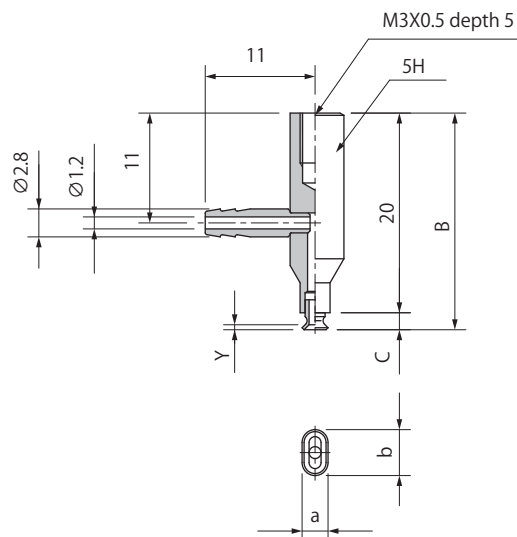
Side Port PFYK-1.5A/2A/3.5A



Model number	A	Y	Weight (g)
PFYK-1.5A-□	1.5	0.4	3
PFYK-2A-□	2		
PFYK-3.5A-□	3.5	0.5	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.

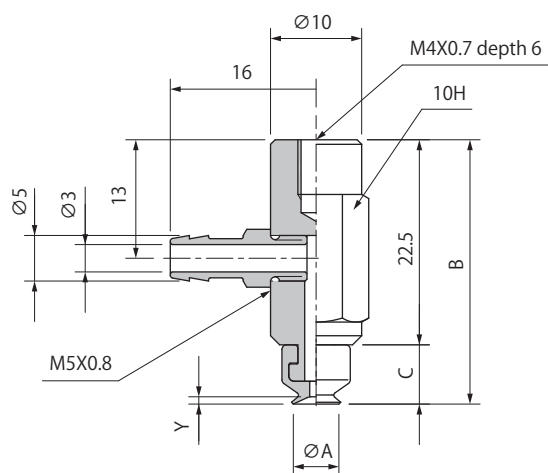
Side Port PFYK-2X4/3.5X7



Model number	A	B	C	Y	Weight (g)
PFYK-2X4-□	2.2X4.2	21.7	1.7	0.5	3
PFYK-3.5X7-□	3.5X7	22.5	2.5	0.8	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.
※ aXb indicates A size of oval cup.

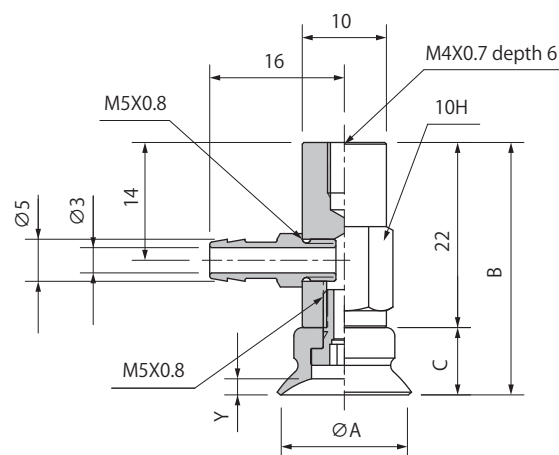
Side Port PFYK-5A/6A/8A/10A



Model number	A	B	C	Y	Weight (g)
PFYK-5A-□	5	29	6.5	0.8	16
PFYK-6A-□	6				
PFYK-8A-□	8	29.5	7	1.2	
PFYK-10A-□	10	30	7.5	1.5	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.

Side Port PFYK-15/20



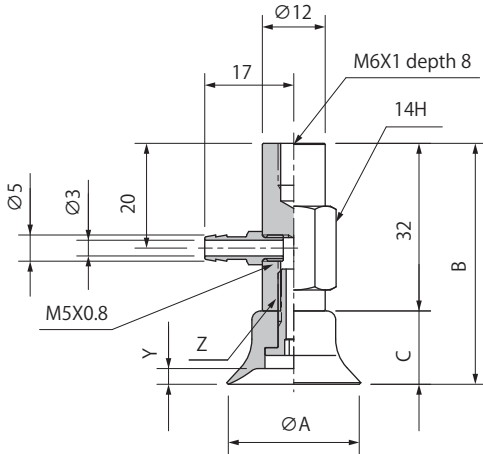
Model number	A	B	C	Y	Weight (g)
PFYK-15-□	15	30	8	1.9	20
PFYK-20-□	20	32	10	2.3	

※□ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) selected.

Dimensions

(mm)

Side Port PFYK-25/30/35/40/50

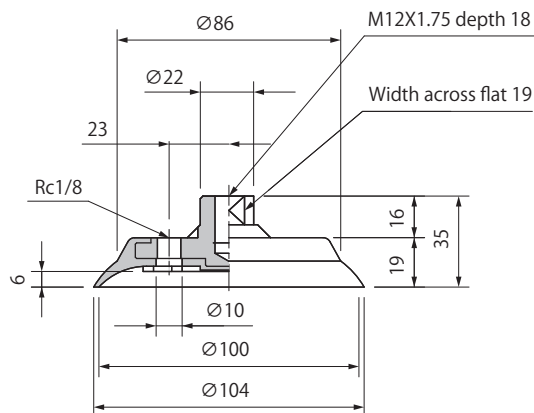


Model number	A	B	C	Y	Z	Weight (g)
PFYK-25-□	25	46	14	3.0	M6X0.1	40
PFYK-30-□	29	44	12	2.0		
PFYK-35-□	35	46	14	3.0		
PFYK-40-□	40			3.5		
PFYK-50-□	50	47	15	4.0	M8X1.25	55

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

Side Port PFYK-100

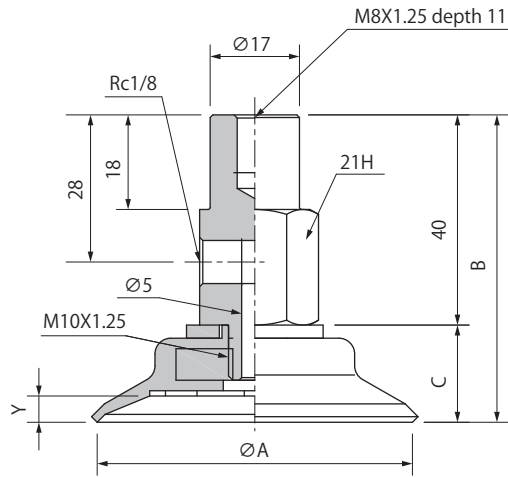


Model number	Weight (g)
PFYK-100-□	140

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

Side Port PFYK-60/80/95

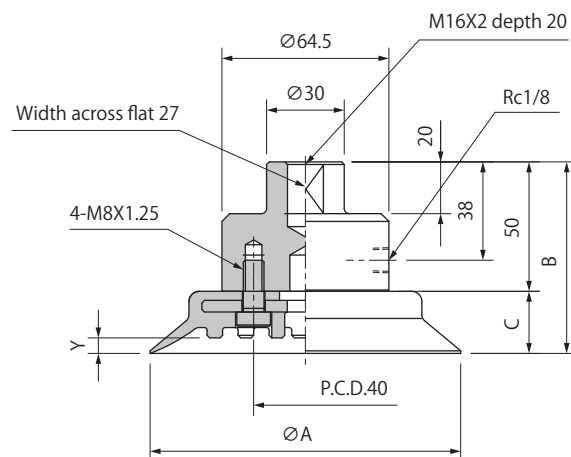


Model number	A	B	C	Y	Weight (g)
PFYK-60-□	60	58.5	18.5	5	120
PFYK-80-□	80	60.5	20.5	6.0	160
PFYK-95-□	93	61	21		210

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

Side Port PFYK-120/150/200



Model number	A	B	C	Y	Weight (g)
PFYK-120-□	120	74	24	6.0	640
PFYK-150-□	150	81	31	9.0	910
PFYK-200-□	200	86	36	13.0	1200

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

02

Suction Cup

PA

PB

PC

PCD

PD

PF

PFO

PH

PJ

CORE

PK2

PK2B

PK2L

PL

PN

PN-B

PP

PQ

PR

PU

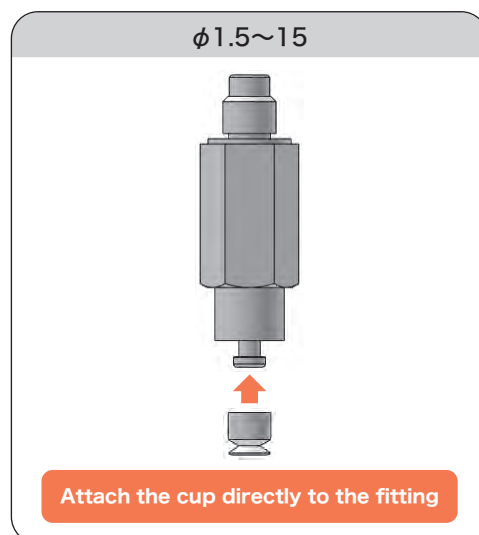
PW

RA

SM

TN

PSS Cup with Compact Spring Fitting



Simple construction of the cup and the fitting

How to Order

PSS — S3 — PFG — 2A — N

① Stroke(mm)

Symbol	Length	Applicable cup size
S3	3	φ1.5~3.5
L3	3	φ5~15
S5	5	φ1.5~3.5
L5	5	φ5~15

② Cup Size(mm)

Symbol	Cup size
1.5A	φ1.5
2A	φ2
3.5A	φ3.5
5A	φ5
6A	φ6
8A	φ8
10A	φ10
15A	φ15

③ Cup Rubber Material

Symbol	Material
N	NBR(Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
SE	Conductive silicone rubber

※Please consult with us for other material.

Combination Table

Male Screw

Model number	Cup	Fitting	Piping specifications
PSS-S3-PFG-1.5A-□	PFG-1.5A-□	PSS-S3	M5X0.8 (Male)
PSS-S3-PFG-2A-□	PFG-2A-□		
PSS-S3-PFG-3.5A-□	PFG-3.5A-□		
PSS-L3-PFG-5A-□	PFG-5A-□	PSS-L3	
PSS-L3-PFG-6A-□	PFG-6A-□		
PSS-L3-PFG-8A-□	PFG-8A-□		
PSS-L3-PFG-10A-□	PFG-10A-□		
PSS-L3-PFG-15A-□	PFG-15A-□		
PSS-S5-PFG-1.5A-□	PFG-1.5A-□	PSS-S5	
PSS-S5-PFG-2A-□	PFG-2A-□		
PSS-S5-PFG-3.5A-□	PFG-3.5A-□		
PSS-L5-PFG-5A-□	PFG-5A-□	PSS-L5	
PSS-L5-PFG-6A-□	PFG-6A-□		
PSS-L5-PFG-8A-□	PFG-8A-□		
PSS-L5-PFG-10A-□	PFG-10A-□		
PSS-L5-PFG-15A-□	PFG-15A-□		

※□ in the table indicates the cup material.

Spring Specifications

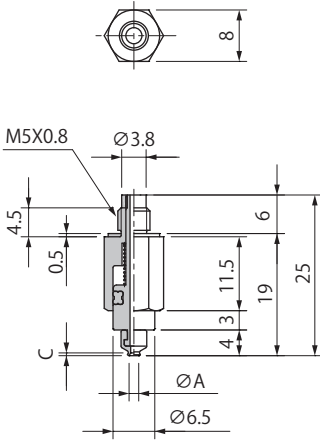
Cup size	Unit	φ1.5~15	
Stroke	mm	3	5
Spring load at 0 stroke	N	1.5	1.62
Spring load at full stroke	N	2.3	3.2
Tightening torque	N·m	0.58~0.68	

※Due to structural reason, 'lift-up' may occur in case vacuum pressure is more than -65kPa. The weight of non 'lift-up' in horizontal lifting is about over 200g. Screw must be tightened in recommended tightening torque, otherwise malfunction would occur.

Dimensions

(mm)

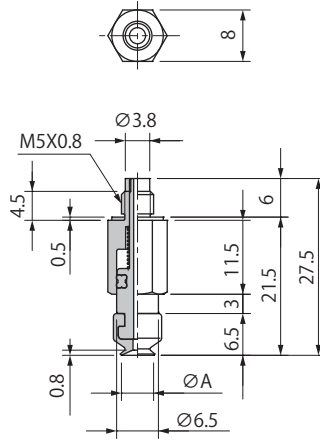
PSS-S3-1.5A/2A/3.5A



Model number	A	C	Weight (g)
PSS-S3-PFG-1.5A-□	1.5	0.4	5.5
PSS-S3-PFG-2A-□	2	0.4	
PSS-S3-PFG-3.5A-□	3.5	0.5	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

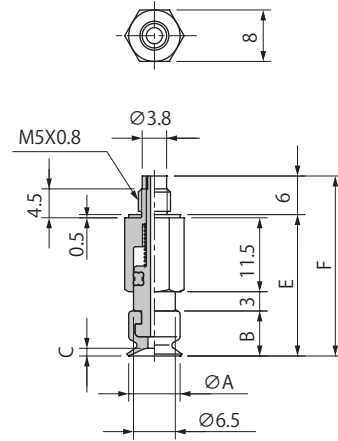
PSS-L3-5A/6A



Model number	A	Weight (g)
PSS-L3-PFG-5A-□	5	6
PSS-L3-PFG-6A-□	6	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

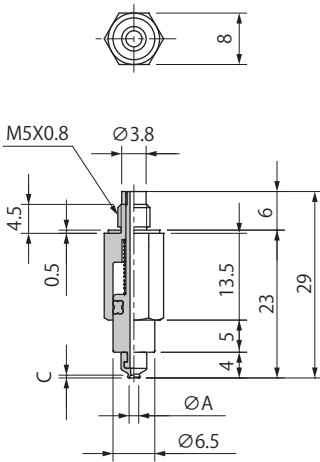
PSS-L3-8A/10A/15A



Model number	A	B	C	E	F	Weight (g)
PSS-L3-PFG-8A-□	8	7	1.2	22	28	10
PSS-L3-PFG-10A-□	10	7.5	1.5	22.5	28.5	
PSS-L3-PFG-15A-□	15	8	2	23	29	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

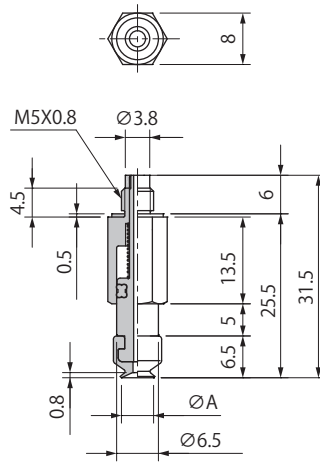
PSS-S5-1.5A/2A/3.5A



Model number	A	C	Weight (g)
PSS-S5-PFG-1.5A-□	1.5	0.4	6.5
PSS-S5-PFG-2A-□	2	0.4	
PSS-S5-PFG-3.5A-□	3.5	0.5	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

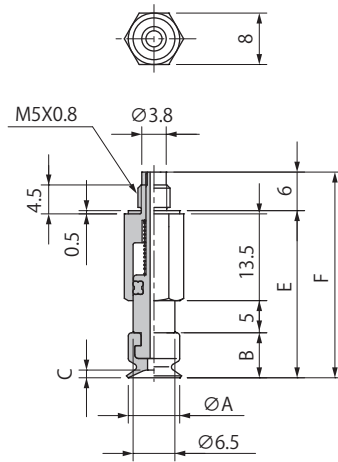
PSS-L5-5A/6A



Model number	A	Weight (g)
PSS-L5-PFG-5A-□	5	7
PSS-L5-PFG-6A-□	6	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

PSS-L5-8A/10A/15A



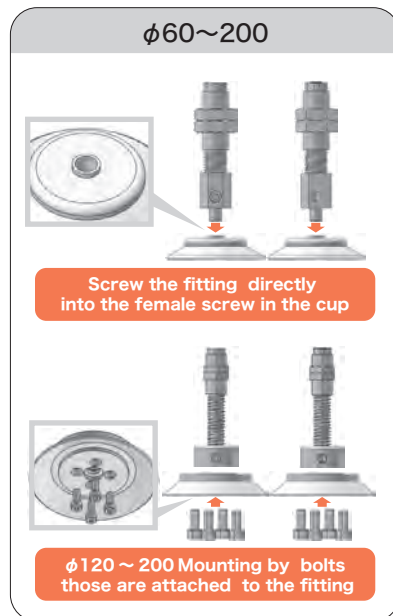
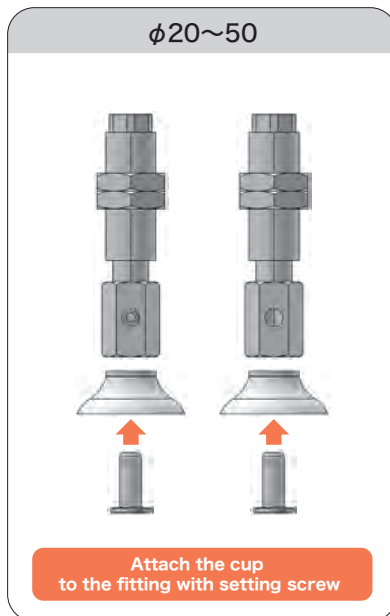
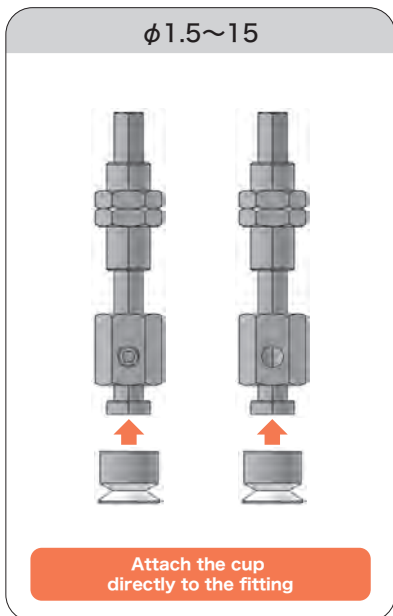
Model number	A	B	C	E	F	Weight (g)
PSS-L5-PFG-8A-□	8	7	1.2	26	32	11
PSS-L5-PFG-10A-□	10	7.5	1.5	26.5	32.5	
PSS-L5-PFG-15A-□	15	8	2	27	33	

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

NAPFTS·YS Cup with Spring Fitting



Consisting of fitting, setting screw, suction cup.



How to Order

NAPF T S - 2A-3 - N - T

① Vacuum Port

T	Top
Y	Side

② Cup Size - Stroke (mm)

Symbol	Cup size Stroke	Symbol	Cup size Stroke	Symbol	Cup size Stroke
1.5A-3	φ1.5-3	20B-6	φ20-6	60-10	φ60-10
1.5A-6	φ1.5-6	20B-15	φ20-15	60-30	φ60-30
2A-3	φ2-3	20B-30	φ20-30	60-50	φ60-50
2A-6	φ2-6	25-6	φ25-6	80-10	φ80-10
3.5A-3	φ3.5-3	25-15	φ25-15	80-30	φ80-30
3.5A-6	φ3.5-6	25-30	φ25-30	80-50	φ80-50
5A-3	φ5-3	30-6	φ30-6	95-10	φ95-10
5A-6	φ5-6	30-15	φ30-15	95-30	φ95-30
6A-3	φ6-3	30-30	φ30-30	95-50	φ95-50
6A-6	φ6-6	35-6	φ35-6	120-20	φ120-20
8A-3	φ8-3	35-15	φ35-15	120-50	φ120-50
8A-6	φ8-6	35-30	φ35-30	150-20	φ150-20
10A-3	φ10-3	40-6	φ40-6	150-50	φ150-50
10A-10	φ10-10	40-15	φ40-15	200-20	φ200-20
10A-15	φ10-15	40-30	φ40-30	200-50	φ200-50
15A-3	φ15-3	50-6	φ50-6		
15A-10	φ15-10	50-15	φ50-15		
15A-15	φ15-15	50-30	φ50-30		

④ Connector

Blank	N/A
T	Barb
O	Push-in

※φ60 or more can not be selected "T" and "O"

③ Cup Rubber Material

Symbol	Material
N	NBR(Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
SE	Conductive silicone rubber

※Please consult with us for other material.

Spring Specifications

Cup size	Unit	φ1.5~8		φ10, 15			φ20~50			φ60~95			φ120~200	
Stroke	mm	3	6	3	10	15	6	15	30	10	30	50	20	50
Spring load at 0 stroke	N	0.49		0.61		0.64	2.45		2.9	8.82	6.76	8.33	15.6	14.7
Spring load at full stroke	N	0.59	0.69	0.77	1.17		3.43	4.9	5.88	11.8	15.6	19.6	29.4	

Combination Table

Model number	Cup	Setting screw	Fitting	Piping specifications		
				Without connector・Blank	Barb connector・T	Push-in connector・O
NAPFOS-1.5A-3-□ (-T/O)	PFG-1.5A-□	Attach the cup directly to the fitting	NAPFOS-1.5A-3-K (-T/O)	M3X0.5 (Female)	φ4X2.5	
NAPFOS-1.5A-6-□ (-T/O)			NAPFOS-1.5A-6-K (-T/O)			
NAPFOS-2A-3-□ (-T/O)	PFG-2A-□		NAPFOS-1.5A-3-K (-T/O)			
NAPFOS-2A-6-□ (-T/O)			NAPFOS-1.5A-6-K (-T/O)			
NAPFOS-3.5A-3-□ (-T/O)	PFG-3.5A-□		NAPFOS-1.5A-3-K (-T/O)			
NAPFOS-3.5A-6-□ (-T/O)			NAPFOS-1.5A-6-K (-T/O)			
NAPFOS-5A-3-□ (-T/O)	PFG-5A-□		NAPFOS-5A-3-K (-T/O)			
NAPFOS-5A-6-□ (-T/O)			NAPFOS-5A-6-K (-T/O)			
NAPFOS-6A-3-□ (-T/O)	PFG-6A-□		NAPFOS-5A-3-K (-T/O)			
NAPFOS-6A-6-□ (-T/O)			NAPFOS-5A-6-K (-T/O)			
NAPFOS-8A-3-□ (-T/O)	PFG-8A-□	TN-PF-25-M6	NAPFOS-5A-3-K (-T/O)	M5X0.8 (Female)	φ6X4	
NAPFOS-8A-6-□ (-T/O)			NAPFOS-5A-6-K (-T/O)			
NAPFOS-10A-3-□ (-T/O)			NAPFOS-10A-3-K (-T/O)			
NAPFOS-10A-10-□ (-T/O)	PFG-10A-□		NAPFOS-10A-10-K (-T/O)			
NAPFOS-10A-15-□ (-T/O)			NAPFOS-10A-15-K (-T/O)			
NAPFOS-15A-3-□ (-T/O)			NAPFOS-10A-3-K (-T/O)			
NAPFOS-15A-10-□ (-T/O)	PFG-15A-□		NAPFOS-10A-10-K (-T/O)			
NAPFOS-15A-15-□ (-T/O)			NAPFOS-10A-15-K (-T/O)			
NAPFOS-20B-6-□ (-T/O)			NAPFOS-20B-6-K (-T/O)			
NAPFOS-20B-15-□ (-T/O)	PFG-20B-□		NAPFOS-20B-15-K (-T/O)			
NAPFOS-20B-30-□ (-T/O)			NAPFOS-20B-30-K (-T/O)			
NAPFOS-25-6-□ (-T/O)		TN-PF-50-M6	NAPFOS-20B-6-K (-T/O)	Rc1/8 (Female)	-	
NAPFOS-25-15-□ (-T/O)	PFG-25-□		NAPFOS-20B-15-K (-T/O)			
NAPFOS-25-30-□ (-T/O)			NAPFOS-20B-30-K (-T/O)			
NAPFOS-30-6-□ (-T/O)			NAPFOS-20B-6-K (-T/O)			
NAPFOS-30-15-□ (-T/O)	PFG-30-□		NAPFOS-20B-15-K (-T/O)			
NAPFOS-30-30-□ (-T/O)			NAPFOS-20B-30-K (-T/O)			
NAPFOS-35-6-□ (-T/O)			NAPFOS-20B-6-K (-T/O)			
NAPFOS-35-15-□ (-T/O)	PFG-35-□		NAPFOS-20B-15-K (-T/O)			
NAPFOS-35-30-□ (-T/O)			NAPFOS-20B-30-K (-T/O)			
NAPFOS-40-6-□ (-T/O)			NAPFOS-20B-6-K (-T/O)			
NAPFOS-40-15-□ (-T/O)	PFG-40-□		NAPFOS-20B-15-K (-T/O)			
NAPFOS-40-30-□ (-T/O)		Screw the fitting directly into the female screw in the cup	NAPFOS-20B-30-K (-T/O)	Rc1/4 (Female)	-	
NAPFOS-50-6-□ (-T/O)			NAPFOS-20B-6-K (-T/O)			
NAPFOS-50-15-□ (-T/O)	PFG-50-□		NAPFOS-20B-15-K (-T/O)			
NAPFOS-50-30-□ (-T/O)			NAPFOS-20B-30-K (-T/O)			
NAPFOS-60-10-□			NAPFOS-60-10-K			
NAPFOS-60-30-□	PFG-60-□		NAPFOS-60-30-K			
NAPFOS-60-50-□			NAPFOS-60-50-K			
NAPFOS-80-10-□			NAPFOS-60-10-K			
NAPFOS-80-30-□	PFG-80-□		NAPFOS-60-30-K			
NAPFOS-80-50-□			NAPFOS-60-50-K			
NAPFOS-95-10-□		Mounting by bolts(4 pieces) those are attached to the fitting	NAPFOS-60-10-K			
NAPFOS-95-30-□	PFG-95-□		NAPFOS-60-30-K			
NAPFOS-95-50-□			NAPFOS-60-50-K			
NAPFOS-120-20-□	PFG-120-□		NAPFOS-120-20-K			
NAPFOS-120-50-□			NAPFOS-120-50-K			
NAPFOS-150-20-□	PFG-150-□		NAPFOS-120-20-K			
NAPFOS-150-50-□			NAPFOS-120-50-K			
NAPFOS-200-20-□	PFG-200-□		NAPFOS-120-20-K			
NAPFOS-200-50-□			NAPFOS-120-50-K			

※□ in the table indicates the cup material.

※○ in the table indicates the vacuum port (T or Y).

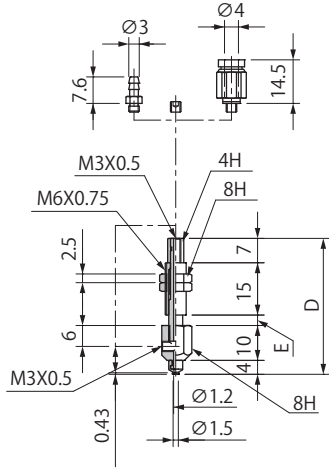
※The mounting torque of the H8 nut for NAPFOS-1.5A/5A-3/6-K (-T/O) should be 2.0N・m or less.

NAPFTS·YS Cup with Spring Fitting

Dimensions

(mm)

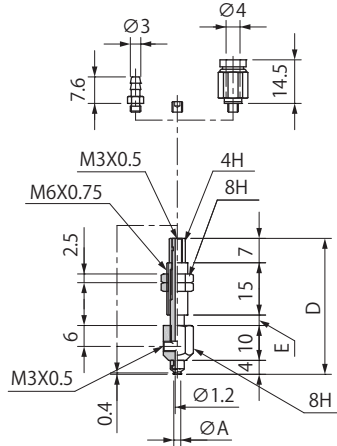
NAPFT/YS-1.5A



Model number	D	E	Weight (g)
NAPFT/YS-1.5A-3-□ (-T/O)	39	3	6
NAPFT/YS-1.5A-6-□ (-T/O)	42	6	

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

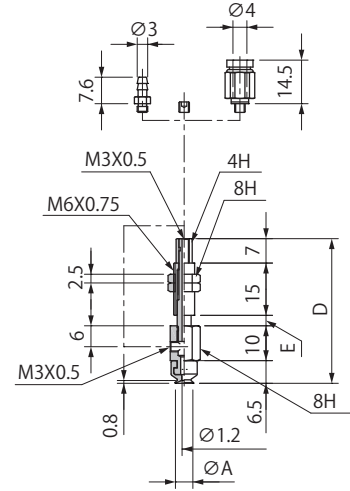
NAPFT/YS-2A/3.5A



Model number	A	D	E	Weight (g)
NAPFT/YS-2A-3-□ (-T/O)	2	39	3	6
NAPFT/YS-2A-6-□ (-T/O)		42	6	
NAPFT/YS-3.5A-3-□ (-T/O)	3.5	39	3	
NAPFT/YS-3.5A-6-□ (-T/O)		42	6	

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

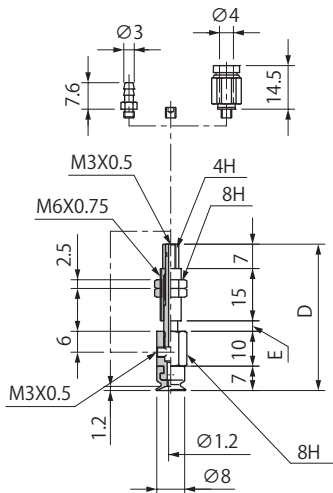
NAPFT/YS-5A/6A



Model number	A	D	E	Weight (g)
NAPFT/YS-5A-3-□ (-T/O)	5	41.5	3	7
NAPFT/YS-5A-6-□ (-T/O)		44.5	6	
NAPFT/YS-6A-3-□ (-T/O)	6	41.5	3	
NAPFT/YS-6A-6-□ (-T/O)		44.5	6	

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

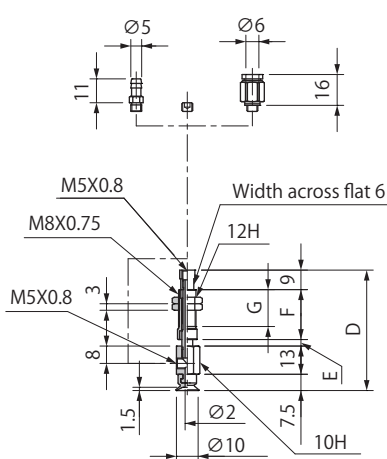
NAPFT/YS-8A



Model number	D	E	Weight (g)
NAPFT/YS-8A-3-□ (-T/O)	42	3	7
NAPFT/YS-8A-6-□ (-T/O)	45	6	

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

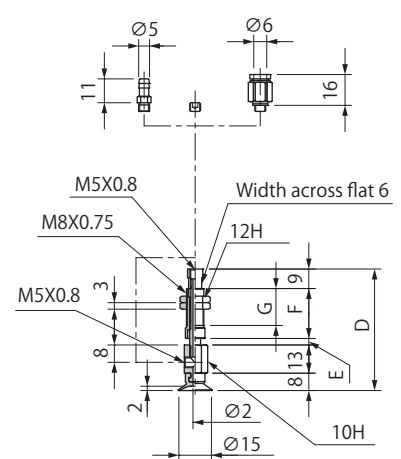
NAPFT/YS-10A



Model number	D	E	F	G	Weight (g)
NAPFT/YS-10A-3-□ (-T/O)	55.5	3	23	17	18
NAPFT/YS-10A-10-□ (-T/O)	62.5	10			18.5
NAPFT/YS-10A-15-□ (-T/O)	75	15	30.5	24.5	21

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YS-15A



Model number	D	E	F	G	Weight (g)
NAPFT/YS-15A-3-□ (-T/O)	56	3	23	17	18
NAPFT/YS-15A-10-□ (-T/O)	63	10			18.5
NAPFT/YS-15A-15-□ (-T/O)	75.5	15	30.5	24.5	21

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

Common Specifications

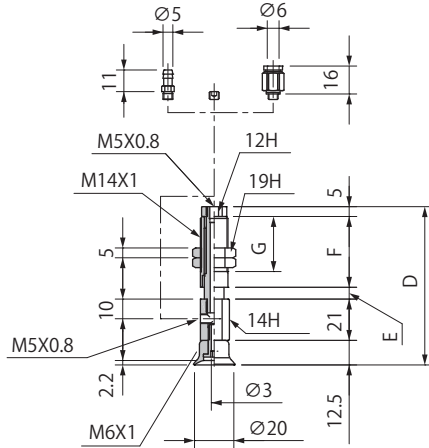
Connector Weight(g)

Symbol	Tube O.D φ 4	Tube O.D φ 6
T	0.5	1.5
O	3.0	4.0

Dimensions

(mm)

NAPFT/YS-20B

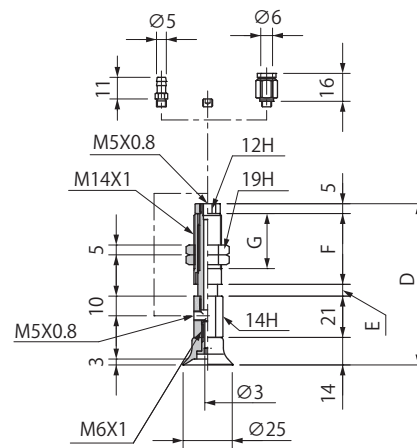


Model number	D	E	F	G	Weight (g)
NAPFT/YS-20B-6-□ (-T/O)	80.5	6	36	28	65.5
NAPFT/YS-20B-15-□ (-T/O)	89.5	15			70.5
NAPFT/YS-20B-30-□ (-T/O)	126.5	30	58	50	95.5

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YS-25

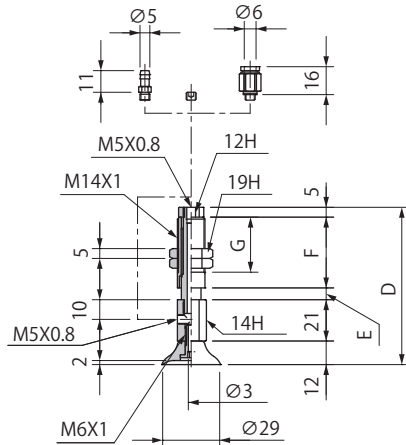


Model number	D	E	F	G	Weight (g)
NAPFT/YS-25-6-□ (-T/O)	82	6	36	28	66
NAPFT/YS-25-15-□ (-T/O)	91	15			71
NAPFT/YS-25-30-□ (-T/O)	128	30	58	50	96

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YS-30

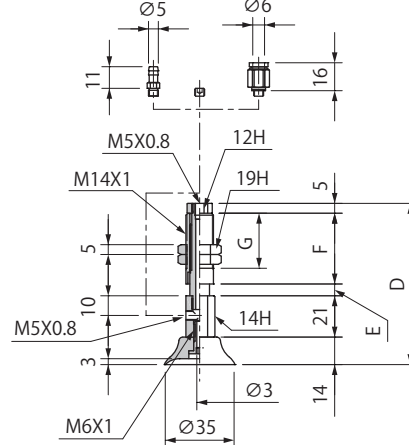


Model number	D	E	F	G	Weight (g)
NAPFT/YS-30-6-□ (-T/O)	80	6	36	28	67
NAPFT/YS-30-15-□ (-T/O)	89	15			72
NAPFT/YS-30-30-□ (-T/O)	126	30	58	50	97

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YS-35



Model number	D	E	F	G	Weight (g)
NAPFT/YS-35-6-□ (-T/O)	82	6	36	28	69.5
NAPFT/YS-35-15-□ (-T/O)	91	15			74.5
NAPFT/YS-35-30-□ (-T/O)	128	30	58	50	99.5

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

Common Specifications

Connector Weight(g)

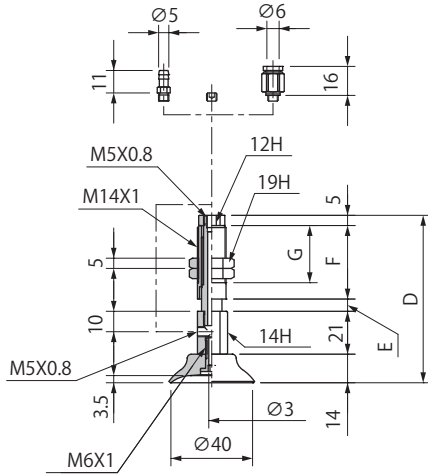
Symbol	Tube O.D φ 6
T	1.5
O	4.0

NAPFTS·YS Cup with Spring Fitting

Dimensions

(mm)

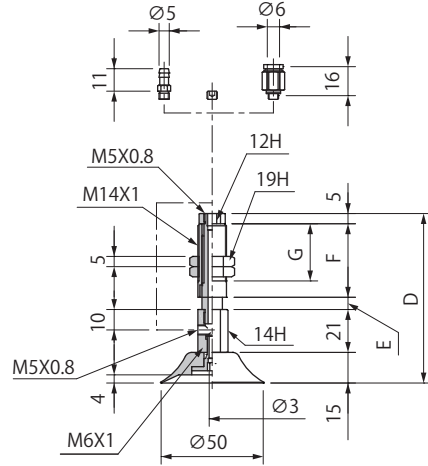
NAPFT/YS-40



Model number	D	E	F	G	Weight (g)
NAPFT/YS-40-6-□ (-T/O)	82	6	36	28	71
NAPFT/YS-40-15-□ (-T/O)	91	15			76
NAPFT/YS-40-30-□ (-T/O)	128	30	58	50	101

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) / without connector selected.

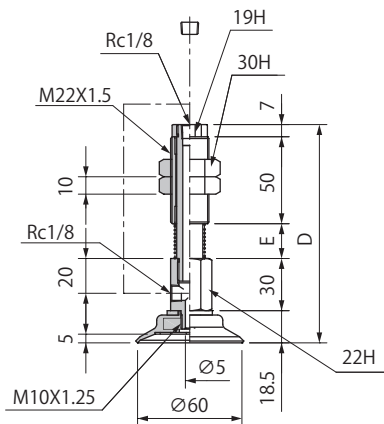
NAPFT/YS-50



Model number	D	E	F	G	Weight (g)
NAPFT/YS-50-6-□ (-T/O)	83	6	36	28	80
NAPFT/YS-50-15-□ (-T/O)	92	15			85
NAPFT/YS-50-30-□ (-T/O)	129	30	58	50	110

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) / without connector selected.

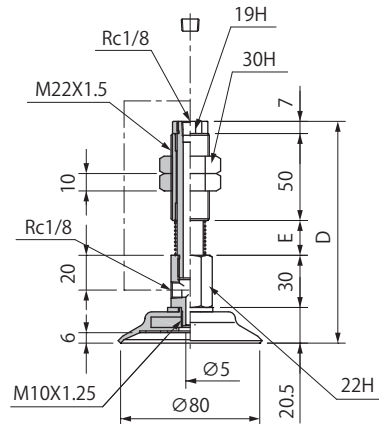
NAPFT/YS-60



Model number	D	E	Weight (g)
NAPFT/YS-60-10-□	125.5	20	282.5
NAPFT/YS-60-30-□	155.5	50	316.5
NAPFT/YS-60-50-□	180.5	75	343.5

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

NAPFT/YS-80



Model number	D	E	Weight (g)
NAPFT/YS-80-10-□	127.5	20	310.5
NAPFT/YS-80-30-□	157.5	50	344.5
NAPFT/YS-80-50-□	182.5	75	371.5

※□ in the table indicates the cup material.
 ※ The weight value is when NBR (Nitrile rubber) selected.

Common Specifications

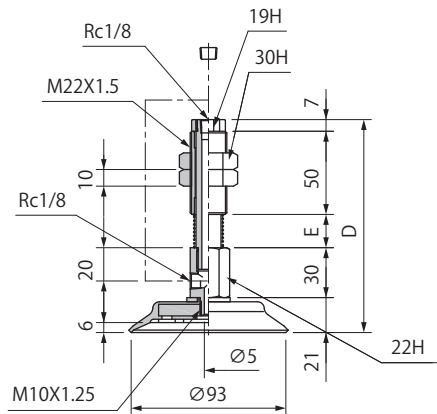
Connector Weight(g)

Symbol	Tube O.D φ 6
T	1.5
O	4.0

Dimensions

(mm)

NAPFT/YS-95

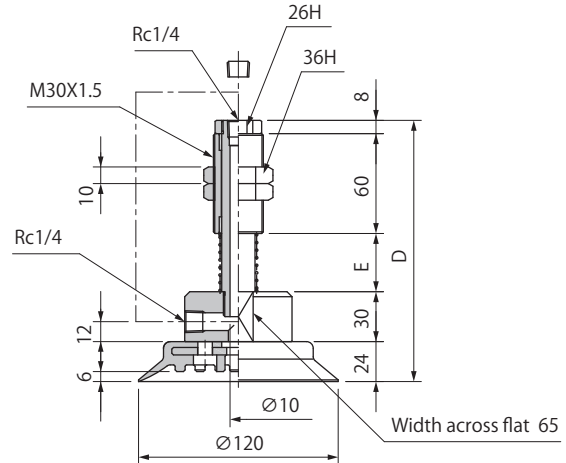


Model number	D	E	Weight (g)
NAPFT/YS-95-10-□	128	20	350.5
NAPFT/YS-95-30-□	158	50	384.5
NAPFT/YS-95-50-□	182	75	411.5

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

NAPFT/YS-120

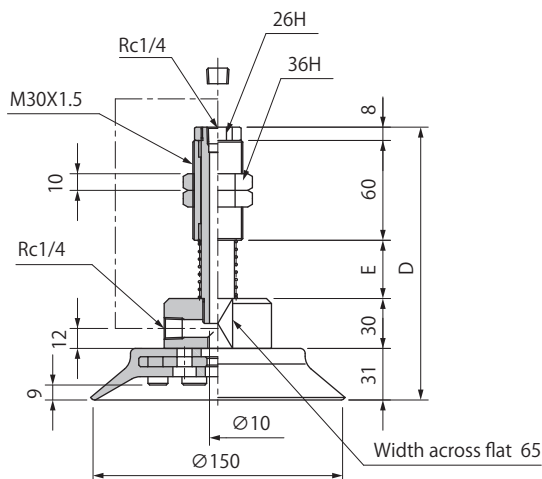


Model number	D	E	Weight (g)
NAPFT/YS-120-20-□	157	35	1165
NAPFT/YS-120-50-□	197	75	1246

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

NAPFT/YS-150

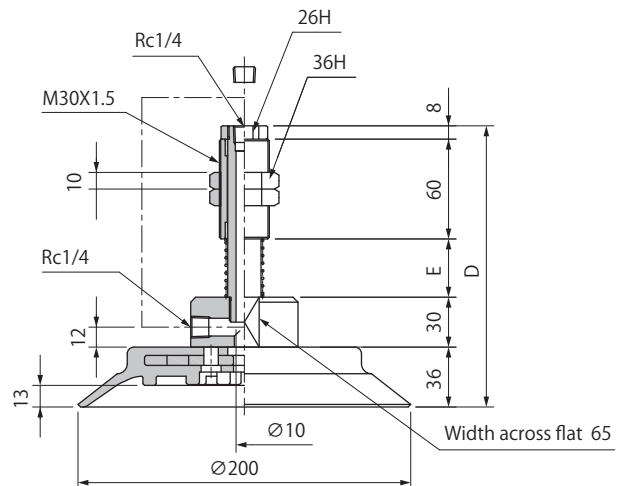


Model number	D	E	Weight (g)
NAPFT/YS-150-20-□	164	35	1389
NAPFT/YS-150-50-□	204	75	1470

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

NAPFT/YS-200



Model number	D	E	Weight (g)
NAPFT/YS-200-20-□	169	35	1755
NAPFT/YS-200-50-□	209	75	1836

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) selected.

Common Specifications

Connector Weight(g)

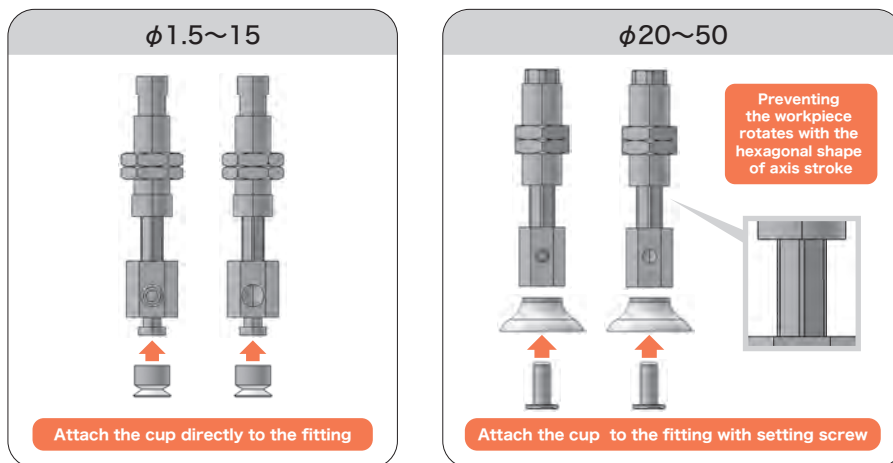
Symbol	Tube O.D φ 6
T	1.5
O	4.0

NAPFTH·YH Cup with Non-rotation Spring Fitting

Suction Cup
Flat Cup



Consisting of fitting, setting screw, suction cup.



02

Suction Cup

PA

PB

PC

PCD

PD

PF

PFO

PH

PJ

CORE

PK2

PK2B

PK2L

PL

PN

PN-B

PP

PQ

PR

PU

PW

RA

SM

TN

How to Order

NAPF **T** H - **2A-3** - **N** - **T**

① Vacuum port

T	Top
Y	Side

② Cup Size - Stroke (mm)

Symbol	Cup size Stroke	Symbol	Cup size Stroke	Symbol	Cup size Stroke
1.5A-3	φ 1.5-3	6A-3	φ 6-3	30-6	φ 30-6
1.5A-10	φ 1.5-10	6A-10	φ 6-10	30-15	φ 30-15
1.5A-15	φ 1.5-15	6A-15	φ 6-15	30-30	φ 30-30
2A-3	φ 2-3	8A-3	φ 8-3	35-6	φ 35-6
2A-10	φ 2-10	8A-10	φ 8-10	35-15	φ 35-15
2A-15	φ 2-15	8A-15	φ 8-15	35-30	φ 35-30
3.5A-3	φ 3.5-3	10A-3	φ 10-3	40-6	φ 40-6
3.5A-10	φ 3.5-10	10A-10	φ 10-10	40-15	φ 40-15
3.5A-15	φ 3.5-15	10A-15	φ 10-15	40-30	φ 40-30
2X4A-3	2X4-3 ^{Note}	15A-3	φ 15-3	50-6	φ 50-6
2X4A-10	2X4-10 ^{Note}	15A-10	φ 15-10	50-15	φ 50-15
2X4A-15	2X4-15 ^{Note}	15A-15	φ 15-15	50-30	φ 50-30
3.5X7A-3	3.5X7-3 ^{Note}	20B-6	φ 20-6		
3.5X7A-10	3.5X7-10 ^{Note}	20B-15	φ 20-15		
3.5X7A-15	3.5X7-15 ^{Note}	20B-30	φ 20-30		
5A-3	φ 5-3	25-6	φ 25-6		
5A-10	φ 5-10	25-15	φ 25-15		
5A-15	φ 5-15	25-30	φ 25-30		

Note) Oval cup.

④ Connector

Blank	N/A
T	Barb
O	Push-in

③ Cup Rubber Material

Symbol	Material
N	NBR(Nitrile rubber)
S	Silicone rubber
U	Urethane rubber
F	Fluorine rubber
NE	Conductive NBR (Nitrile rubber)
SE	Conductive silicone rubber

※ Please consult with us for other material.

Spring Specifications

Cup size	Unit	φ1.5~3.5X7			φ5~15			φ20~50		
Stroke	mm	3	10	15	3	10	15	6	15	30
Spring load at 0 stroke	N	0.27		0.29	0.61		0.64	2.45		2.9
Spring load at full stroke	N	0.43	0.82	0.83	0.77	1.17		3.43	4.9	5.88

Combination Table

Model number	Cup	Setting screw	Fitting	Piping specifications		
				Without connector・Blank	Barb connector・T	Push-in connector・O
NAPF○H-1.5A-3-□ (-T/O)	PFG-1.5A-□	Attach the cup directly to the fitting	NAPF○H-1.5A-3-K (-T/O)	M3X0.5 (Female)	φ4X2.5	
NAPF○H-1.5A-10-□ (-T/O)			NAPF○H-1.5A-10-K (-T/O)			
NAPF○H-1.5A-15-□ (-T/O)			NAPF○H-1.5A-15-K (-T/O)			
NAPF○H-2A-3-□ (-T/O)	PFG-2A-□		NAPF○H-1.5A-3-K (-T/O)			
NAPF○H-2A-10-□ (-T/O)			NAPF○H-1.5A-10-K (-T/O)			
NAPF○H-2A-15-□ (-T/O)			NAPF○H-1.5A-15-K (-T/O)			
NAPF○H-3.5A-3-□ (-T/O)	PFG-3.5A-□		NAPF○H-1.5A-3-K (-T/O)			
NAPF○H-3.5A-10-□ (-T/O)			NAPF○H-1.5A-10-K (-T/O)			
NAPF○H-3.5A-15-□ (-T/O)			NAPF○H-1.5A-15-K (-T/O)			
NAPF○H-2X4A-3-□ (-T/O)	PFG-2X4A-□		NAPF○H-2X4A-3-K (-T/O)			
NAPF○H-2X4A-10-□ (-T/O)			NAPF○H-2X4A-10-K (-T/O)			
NAPF○H-2X4A-15-□ (-T/O)			NAPF○H-2X4A-15-K (-T/O)			
NAPF○H-3.5X7A-3-□ (-T/O)	PFG-3.5X7A-□		NAPF○H-2X4A-3-K (-T/O)			
NAPF○H-3.5X7A-10-□ (-T/O)			NAPF○H-2X4A-10-K (-T/O)			
NAPF○H-3.5X7A-15-□ (-T/O)			NAPF○H-2X4A-15-K (-T/O)			
NAPF○H-5A-3-□ (-T/O)	PFG-5A-□		NAPF○H-5A-3-K (-T/O)			
NAPF○H-5A-10-□ (-T/O)			NAPF○H-5A-10-K (-T/O)			
NAPF○H-5A-15-□ (-T/O)			NAPF○H-5A-15-K (-T/O)			
NAPF○H-6A-3-□ (-T/O)	PFG-6A-□		NAPF○H-5A-3-K (-T/O)			
NAPF○H-6A-10-□ (-T/O)			NAPF○H-5A-10-K (-T/O)			
NAPF○H-6A-15-□ (-T/O)			NAPF○H-5A-15-K (-T/O)			
NAPF○H-8A-3-□ (-T/O)	PFG-8A-□		NAPF○H-5A-3-K (-T/O)			
NAPF○H-8A-10-□ (-T/O)			NAPF○H-5A-10-K (-T/O)			
NAPF○H-8A-15-□ (-T/O)			NAPF○H-5A-15-K (-T/O)			
NAPF○H-10A-3-□ (-T/O)	PFG-10A-□		NAPF○H-5A-3-K (-T/O)			
NAPF○H-10A-10-□ (-T/O)			NAPF○H-5A-10-K (-T/O)			
NAPF○H-10A-15-□ (-T/O)			NAPF○H-5A-15-K (-T/O)			
NAPF○H-15A-3-□ (-T/O)	PFG-15A-□		NAPF○H-5A-3-K (-T/O)			
NAPF○H-15A-10-□ (-T/O)			NAPF○H-5A-10-K (-T/O)			
NAPF○H-15A-15-□ (-T/O)			NAPF○H-5A-15-K (-T/O)			
NAPF○H-20B-6-□ (-T/O)	PFG-20B-□	NAPF○H-20B-6-K (-T/O)	M5X0.8 (Female)	φ6X4		
NAPF○H-20B-15-□ (-T/O)		NAPF○H-20B-15-K (-T/O)				
NAPF○H-20B-30-□ (-T/O)		NAPF○H-20B-30-K (-T/O)				
NAPF○H-25-6-□ (-T/O)	PFG-25-□	NAPF○H-20B-6-K (-T/O)				
NAPF○H-25-15-□ (-T/O)		NAPF○H-20B-15-K (-T/O)				
NAPF○H-25-30-□ (-T/O)		NAPF○H-20B-30-K (-T/O)				
NAPF○H-30-6-□ (-T/O)	PFG-30-□	NAPF○H-20B-6-K (-T/O)				
NAPF○H-30-15-□ (-T/O)		NAPF○H-20B-15-K (-T/O)				
NAPF○H-30-30-□ (-T/O)		NAPF○H-20B-30-K (-T/O)				
NAPF○H-35-6-□ (-T/O)	PFG-35-□	NAPF○H-20B-6-K (-T/O)				
NAPF○H-35-15-□ (-T/O)		NAPF○H-20B-15-K (-T/O)				
NAPF○H-35-30-□ (-T/O)		NAPF○H-20B-30-K (-T/O)				
NAPF○H-40-6-□ (-T/O)	PFG-40-□	NAPF○H-20B-6-K (-T/O)				
NAPF○H-40-15-□ (-T/O)		NAPF○H-20B-15-K (-T/O)				
NAPF○H-40-30-□ (-T/O)		NAPF○H-20B-30-K (-T/O)				
NAPF○H-50-6-□ (-T/O)	PFG-50-□	NAPF○H-20B-6-K (-T/O)	TN-PF-50-M6			
NAPF○H-50-15-□ (-T/O)		NAPF○H-20B-15-K (-T/O)				
NAPF○H-50-30-□ (-T/O)		NAPF○H-20B-30-K (-T/O)				

※□ in the table indicates the cup material.

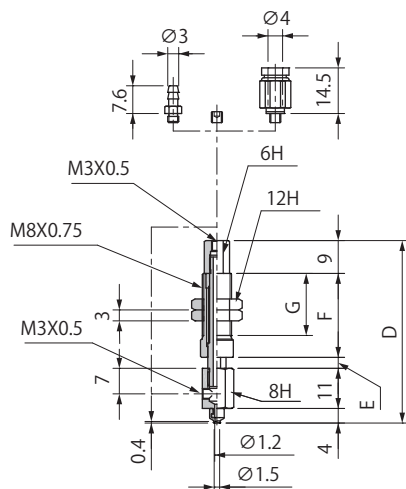
※○ in the table indicates the vacuum port (T or Y).

NAPFTH·YH Cup with Non-rotation Spring Fitting

Dimensions

(mm)

NAPFT/YH-1.5A

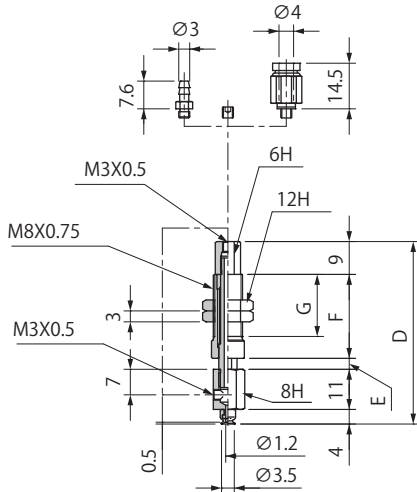


Model number	D	E	F	G	Weight (g)
NAPFT/YH-1.5A-3-□ (-T/O)	50	3	23	17	15.5
NAPFT/YH-1.5A-10-□ (-T/O)	57	10			17
NAPFT/YH-1.5A-15-□ (-T/O)	69.5	15	30.5	24.5	20

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-3.5A

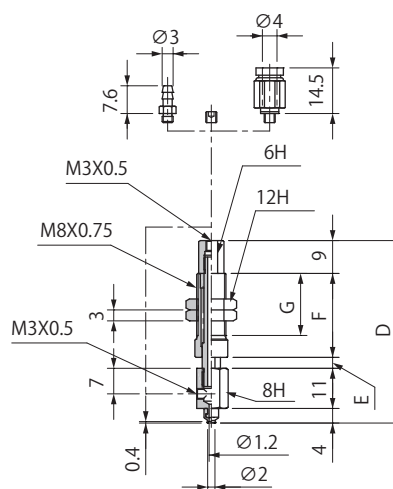


Model number	D	E	F	G	Weight (g)
NAPFT/YH-3.5A-3-□ (-T/O)	50	3	23	17	15.5
NAPFT/YH-3.5A-10-□ (-T/O)	57	10			17
NAPFT/YH-3.5A-15-□ (-T/O)	69.5	15	30.5	24.5	20

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-2A

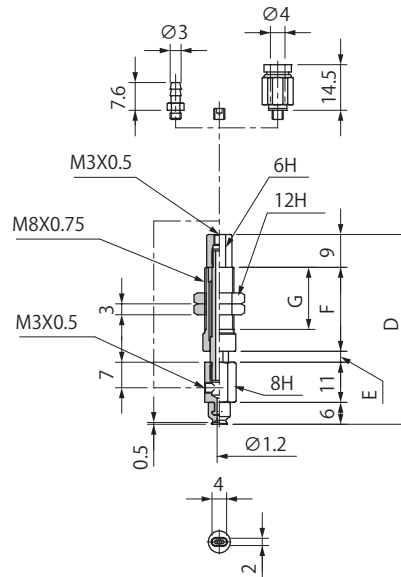


Model number	D	E	F	G	Weight (g)
NAPFT/YH-2A-3-□ (-T/O)	50	3	23	17	15.5
NAPFT/YH-2A-10-□ (-T/O)	57	10			17
NAPFT/YH-2A-15-□ (-T/O)	69.5	15	30.5	24.5	20

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-2X4A



Model number	D	E	F	G	Weight (g)
NAPFT/YH-2X4A-3-□ (-T/O)	52	3	23	17	16.5
NAPFT/YH-2X4A-10-□ (-T/O)	59	10			17
NAPFT/YH-2X4A-15-□ (-T/O)	71.5	15	30.5	24.5	20

※□ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

Common Specifications

Connector Weight(g)

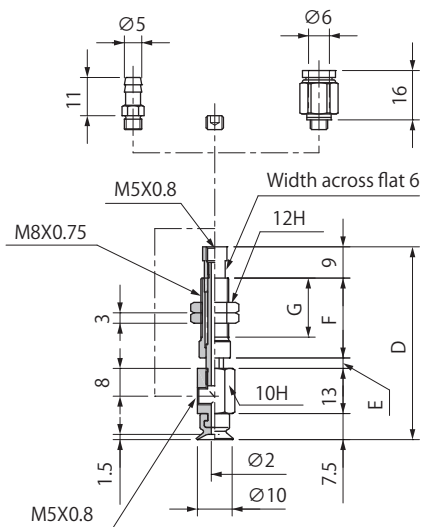
Symbol	Tube O.D φ 4
T	0.5
O	3.0

NAPFTH·YH Cup with Non-rotation Spring Fitting

Dimensions

(mm)

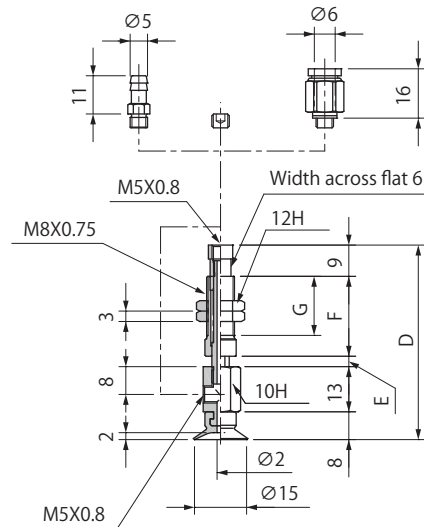
NAPFT/YH-10A



Model number	D	E	F	G	Weight (g)
NAPFT/YH-10A-3-□ (-T/O)	55.5	3	23	17	18.5
NAPFT/YH-10A-10-□ (-T/O)	62.5	10			19
NAPFT/YH-10A-15-□ (-T/O)	75	15	30.5	24.5	22

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

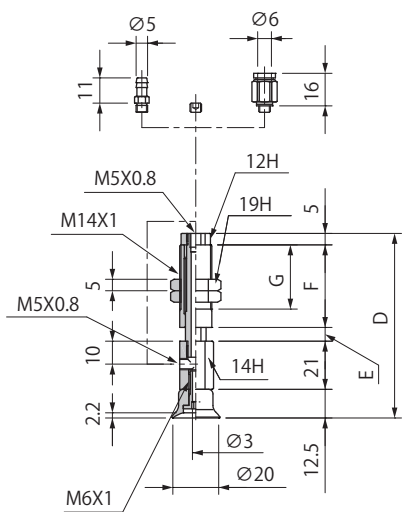
NAPFT/YH-15A



Model number	D	E	F	G	Weight (g)
NAPFT/YH-15A-3-□ (-T/O)	56	3	23	17	18.5
NAPFT/YH-15A-10-□ (-T/O)	63	10			19
NAPFT/YH-15A-15-□ (-T/O)	75.5	15	30.5	24.5	22

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

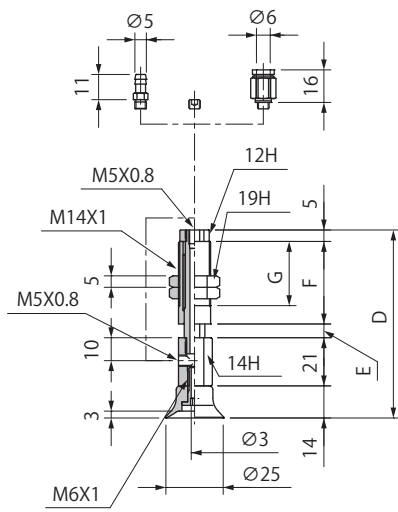
NAPFT/YH-20B



Model number	D	E	F	G	Weight (g)
NAPFT/YH-20B-6-□ (-T/O)	80.5	6	36	28	64
NAPFT/YH-20B-15-□ (-T/O)	89.5	15			69
NAPFT/YH-20B-30-□ (-T/O)	126.5	30	58	50	93

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-25



Model number	D	E	F	G	Weight (g)
NAPFT/YH-25-6-□ (-T/O)	82	6	36	28	64.5
NAPFT/YH-25-15-□ (-T/O)	91	15			69.5
NAPFT/YH-25-30-□ (-T/O)	128	30	58	50	93.5

※ □ in the table indicates the cup material.
※ The weight value is when NBR (Nitrile rubber) / without connector selected.

Common Specifications

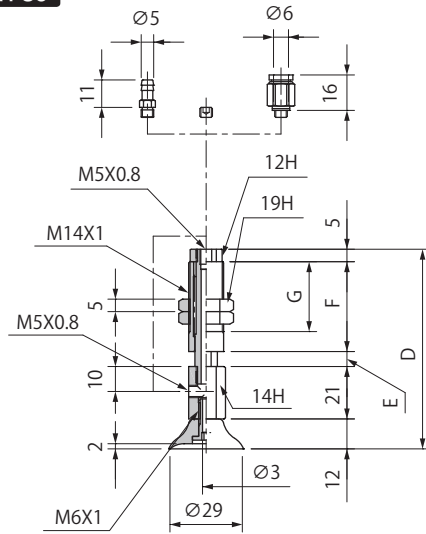
Connector Weight(g)

Symbol	Tube O.D φ 6
T	1.5
O	4.0

Dimensions

(mm)

NAPFT/YH-30

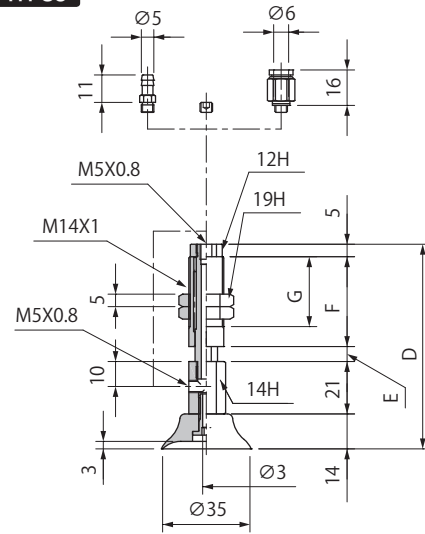


Model number	D	E	F	G	Weight (g)
NAPFT/YH-30-6-□ (-T/O)	80	6	36	28	65.5
NAPFT/YH-30-15-□ (-T/O)	89	15			70.5
NAPFT/YH-30-30-□ (-T/O)	126	30	58	50	94.5

※ □ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-35

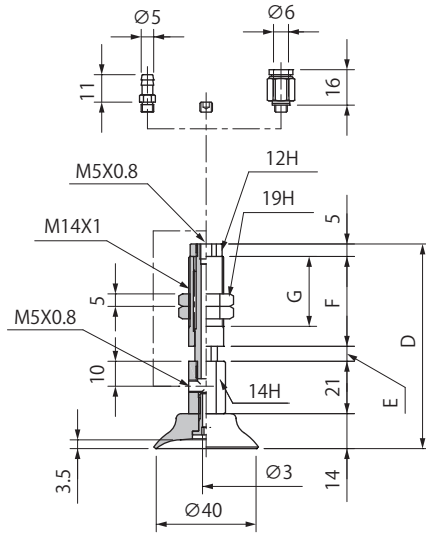


Model number	D	E	F	G	Weight (g)
NAPFT/YH-35-6-□ (-T/O)	82	6	36	28	68
NAPFT/YH-35-15-□ (-T/O)	91	15			73
NAPFT/YH-35-30-□ (-T/O)	128	30	58	50	97

※ □ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-40

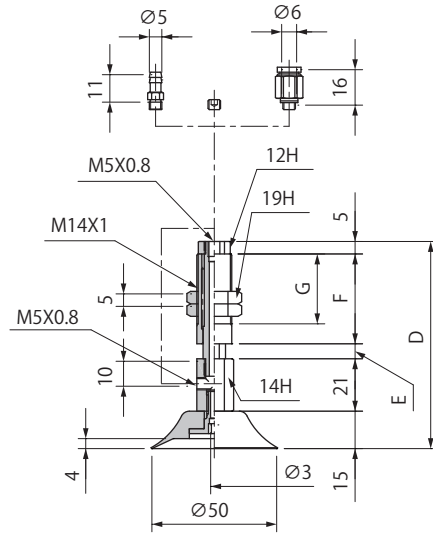


Model number	D	E	F	G	Weight (g)
NAPFT/YH-40-6-□ (-T/O)	82	6	36	28	69.5
NAPFT/YH-40-15-□ (-T/O)	91	15			74.5
NAPFT/YH-40-30-□ (-T/O)	128	30	58	50	98.5

※ □ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

NAPFT/YH-50



Model number	D	E	F	G	Weight (g)
NAPFT/YH-50-6-□ (-T/O)	83	6	36	28	78
NAPFT/YH-50-15-□ (-T/O)	92	15			83
NAPFT/YH-50-30-□ (-T/O)	129	30	58	50	107

※ □ in the table indicates the cup material.

※ The weight value is when NBR (Nitrile rubber) / without connector selected.

Common Specifications

Connector Weight(g)

Symbol	Tube O.D φ 6
T	1.5
O	4.0

02

Suction Cup

PA

PB

PC

PCD

PD

PF

PFO

PH

PJ

CORE

PK2

PK2B

PK2L

PL

PN

PN-B

PP

PQ

PR

PU

PW

RA

SM

TN