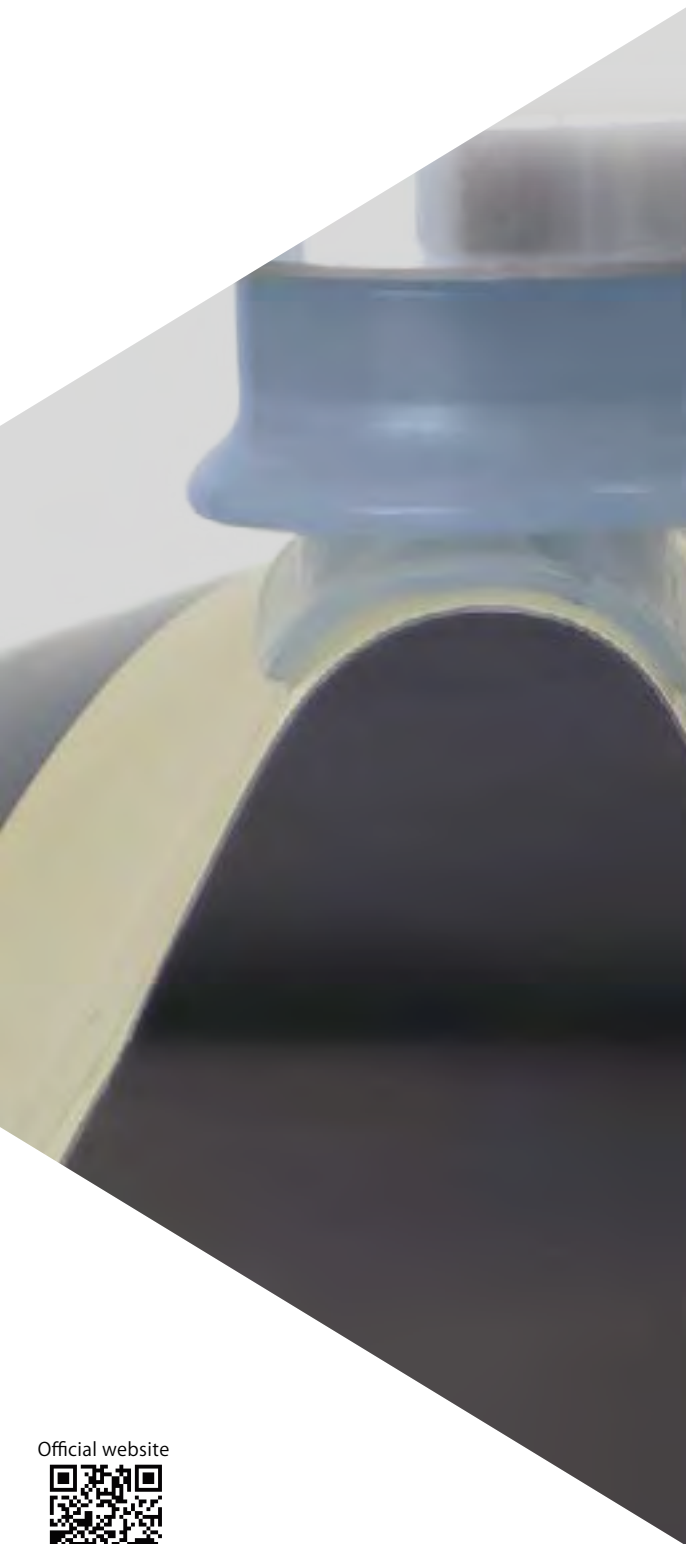


Pouch Opening Suction Cup



Official website

CONVUM Ltd.

6-18 Shimomaruko2-chome, Ohta-ku, Tokyo 146-0092, Japan
TEL +81-3-5741-7201

Contact Information
<https://convum.com/contact>

email
faq@convum.co.jp

2025.10.30

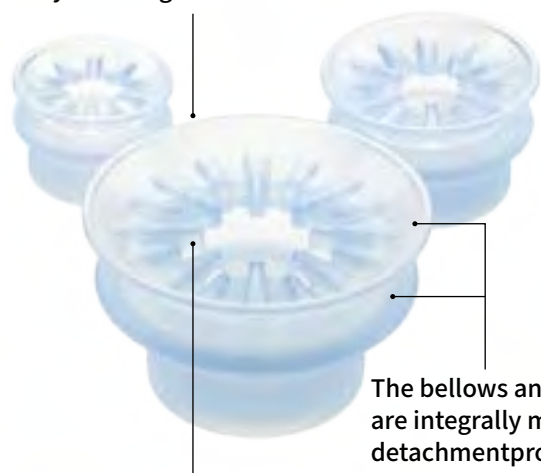
Pouch Opening Suction Cup

PYK
series



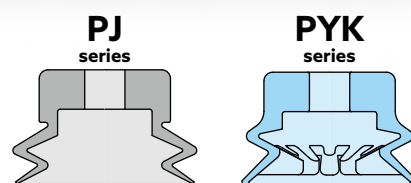
High-Durability Bellows Cup for Pouch Opening

The outer ribs of the lip prevent tearing and extend product life by reducing wear.



The bellows and lip are integrally molded, preventing detachment problems.

Pouch Bag Opening



The ribs extending to the suction port prevent film from being drawn into the cup, helping to reduce lip wear and prevent the formation of large wrinkles.

Durability has been improved by increasing the thickness of the lip and bellows compared to conventional models.

Pouch Opening Durability Comparison



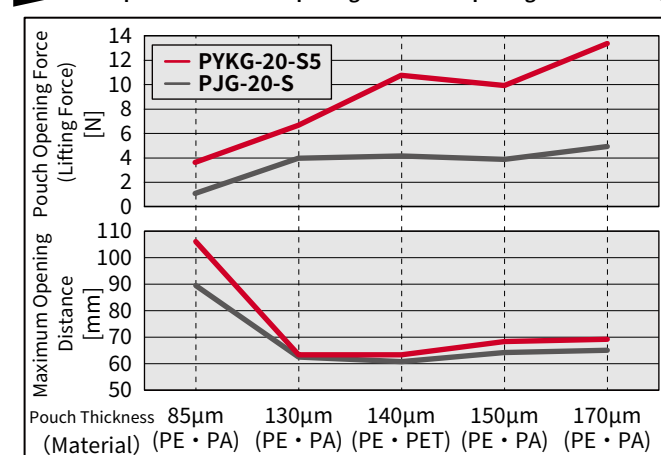
Note) Test results and performance data are actual measured values obtained under our test conditions and are provided for reference only.

Pouch Opening Machine (Our Demo Unit)

Longer pouch opening distance for fewer opening errors.



Comparison of Pouch Opening Force and Opening Distance



In actual testing on a customer's pouch opening machine, replacing the PJG-20-S with the PYKG-20-S5 **reduced the pouch opening failure rate to 1/5.**

Note) The test results and data shown are measured values obtained under our test conditions and are not guaranteed specifications. Please use them for reference only.

Selectable Metal-Detectable Silicone Rubber

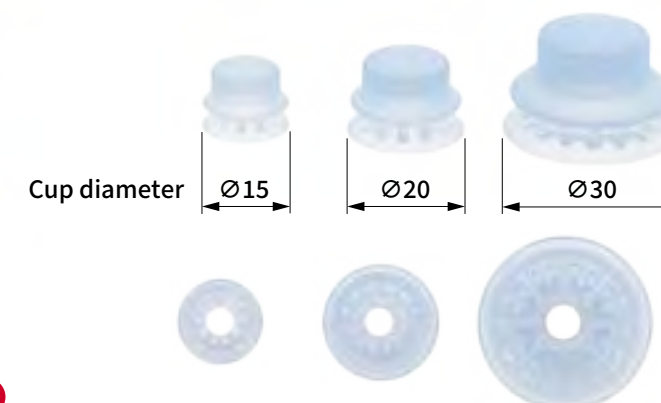
Silicone Rubber
Hardness: Shore A 40 (Material Code: S4)
Low hardness provides excellent conformity to workpiece surfaces

Metal-Detectable Silicone Rubber
Hardness: Shore A 55 (Material Code: SM)
Can be detected by metal detectors



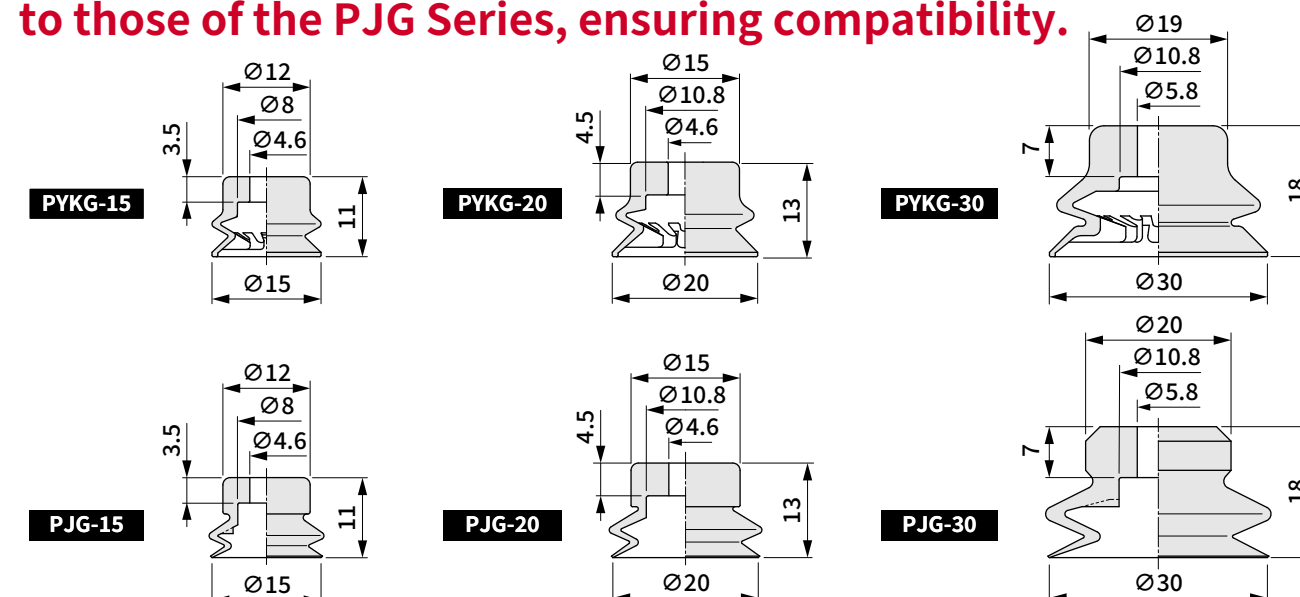
Silicone Rubber Hardness: Shore A 55 (Material Code: S5)
High tensile strength and long service life

PYKG-15-S4 PYKG-20-S4 PYKG-30-S4



Compliant with the Food Sanitation Act and FDA Regulations

The outside diameter and mounting dimensions are equivalent to those of the PJG Series, ensuring compatibility.



Compatibility may vary depending on the workpiece. Be sure to conduct a suction test before replacing the product.

Model Number (Suction Cup Only)

PYKG - 20 - S4

① ②

① Compatible Cups

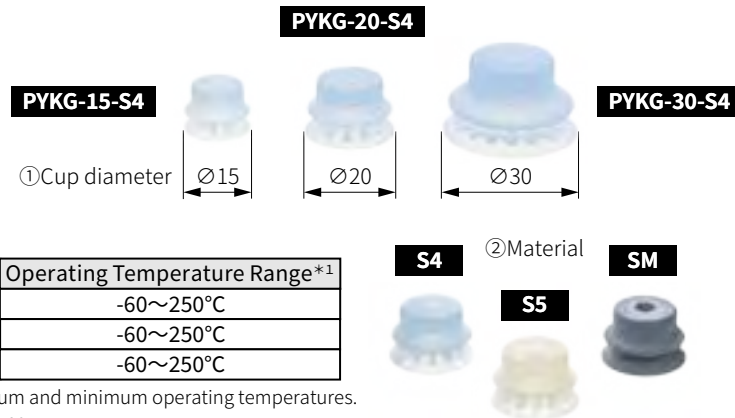
15	Ø15mm
20	Ø20mm
30	Ø30mm

② Material

	Rubber Material	Hardness	Color	Operating Temperature Range*1
S4	Silicone Rubber	A 40	Light Blue	-60~250°C
S5	Silicone Rubber	A 55	Milky White	-60~250°C
SM	Metal-Detectable Silicone Rubber	A 55	Gray*2)	-60~250°C

Note 1) Rubber properties may deteriorate significantly near the maximum and minimum operating temperatures. Be sure to conduct sufficient evaluation and verification before use.

Note 2) Color unevenness may occur due to material characteristics. However, this does not affect performance.



Model Number List and Mass

CODE	Model Number	Mass	CODE	Model Number	Mass	CODE	Model Number	Mass
302800005	PYKG-15-S4	0.9g	302800001	PYKG-20-S4	1.7g	302800008	PYKG-30-S4	4.7g
302800006	PYKG-15-S5	0.9g	302800002	PYKG-20-S5	1.8g	302800009	PYKG-30-S5	4.8g
302800007	PYKG-15-SM	1.3g	302800003	PYKG-20-SM	2.6g	302800010	PYKG-30-SM	6.9g

Material Properties Table

Material			Silicone Rubber Hardness: Shore A 40	Silicone Rubber Hardness: Shore A 55	Metal-Detectable Silicone Rubber
Our Specifications	Symbol		S4	S5	SM
	Color / Identification		Translucent Light Blue	Translucent Milky White	Gray
Mechanical Properties	Hardness	JIS K6253	40	55	55
	Specific Gravity	JIS K6268	1.14	1.17	1.67
	Tensile Strength	JIS K6251	△	○	△
	Elongation	JIS K6251	○	△	△
	Tear Strength	JIS K6252	○	○	○
	Abrasion Resistance	JIS K6264-2	○	○	△
	Tackiness	In-House Measurement Method	○	○	○
Physical Properties	Maximum Operating Temperature(°C)	-	200	200	200
	Brittleness Temperature(°C)	JIS K6261	-60	-60	-60
	Ozone Resistance	-	◎	◎	◎
Oil Resistance / Chemical Resistance	Oil	Kerosene	×	×	×
		Vegetable Oil	○	○	○
	Alcohol	Ethanol	○	○	○
		IPA	○	○	○
	Acid	Hydrochloric Acid (10%)	◎	◎	×
		Sulfuric Acid (10%)	◎	◎	○
	Alkali	Aqueous Ammonia (2%)	○	○	○
		Sodium Hypochlorite (5%)	◎	◎	◎
		Water	◎	◎	◎
Food Sanitation Act Test (Test Standards for Rubber Utensils and Food Contact Containers and Packaging [100°C or Below])			Pass	Pass	Pass
F D A 21CFR § 177.2600 (Rubber Articles Intended for Repeated Use)			Pass	Pass	Pass

【Mechanical Properties】◎Good ○Standard △Very Poor ×Poor

【Ozone, Oil and Chemical Resistance】

◎Resistant

○Usable (Please note that material deterioration may occur depending on conditions such as high concentrations, repeated exposure, or prolonged immersion.)

×Not Resistant

Note 1) The values shown in this table represent the general properties of our rubber materials. They are provided for reference only and are not guaranteed.

Rubber properties may deteriorate significantly near the maximum and minimum operating temperatures.

Even within the operating temperature range, properties may vary depending on the suction cup shape and duration of use.

Be sure to conduct sufficient evaluation and verification before use.

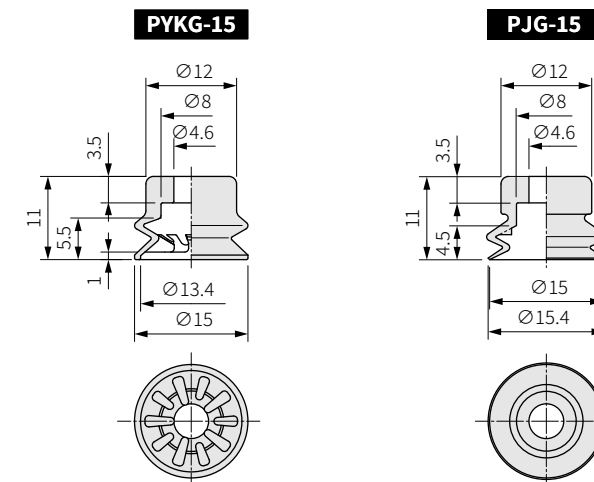
PYK series Pouch Opening Suction Cup

Dimensions

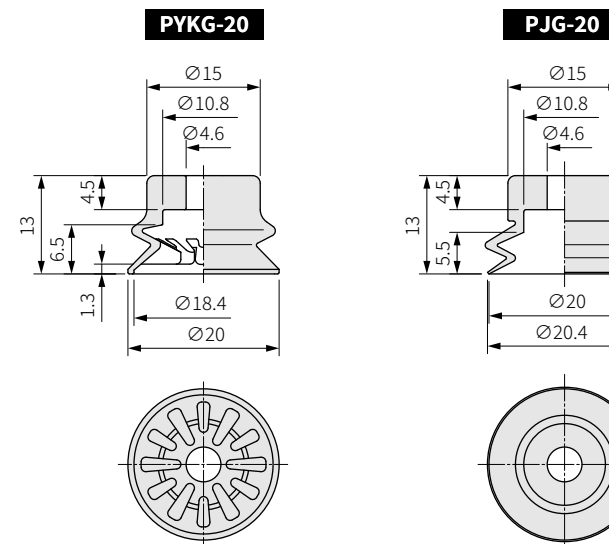
Set Screw

Note) The outside diameter and mounting dimensions are equivalent to those of the conventional PJG Series, ensuring compatibility.

However, compatibility may vary depending on the workpiece. Be sure to conduct a suction test before replacing the product.



Model Number	TN-PF-15-M5	Mass	1.4g
Material	Brass	Treatment	Nickel Plating
Applicable Suction Cup Model Number	PYKG-15 / PJG-15		

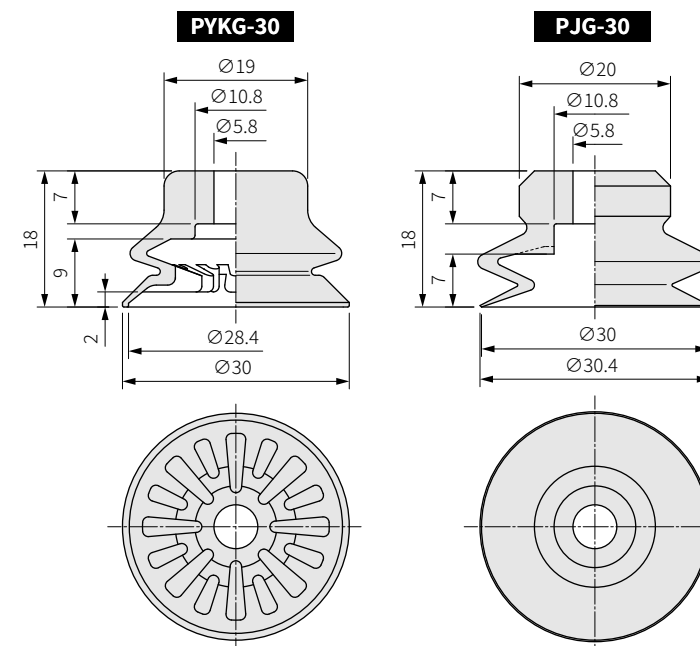


Model Number	TN-PF-20-M5	Mass	2.3g
Material	Brass	Treatment	Nickel Plating
Applicable Suction Cup Model Number	PYKG-20 / PJG-20		

For Stainless Steel Specification^{Note 1)}

Model Number : TN-PF-20-M5 SUS303

Note 1) The stainless steel specification is a special-order product and is available on a made-to-order basis. For available quantities and delivery lead times, please contact your sales representative or our Customer Support Center.



Model Number	TN-PF-25-M6	Mass	3.3g
Material	Brass	Treatment	Nickel Plating
Applicable Suction Cup Model Number	PYKG-30 / PJG-30		

For Stainless Steel Specification^{Note 1)}

Model Number : TN-PF-25-M6 SUS303

Note 1) The stainless steel specification is a special-order product and is available on a made-to-order basis. For available quantities and delivery lead times, please contact your sales representative or our Customer Support Center.



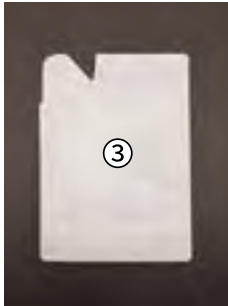
Pouch Opening Force and Opening Distance



Coating Thickness: 85μm
Material (PE·PA)



Coating Thickness: 130μm
Material (PE·PA)



Coating Thickness: 130μm
Material (PE·PET)



Coating Thickness: 130μm
Material (PE·PA)

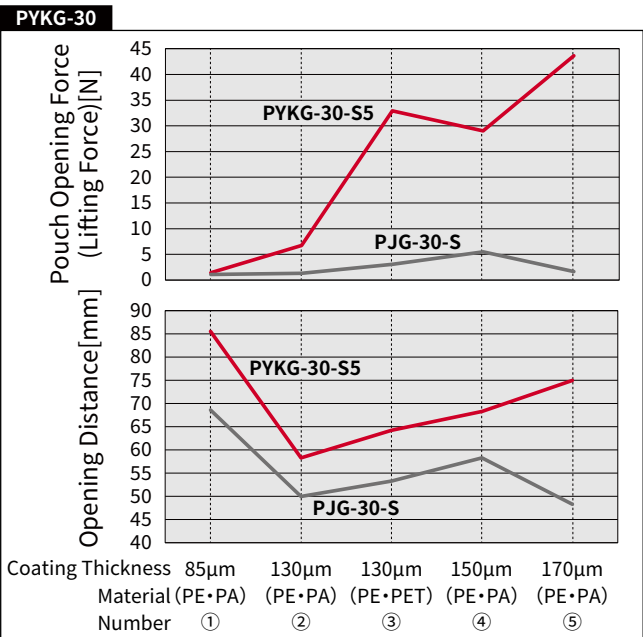
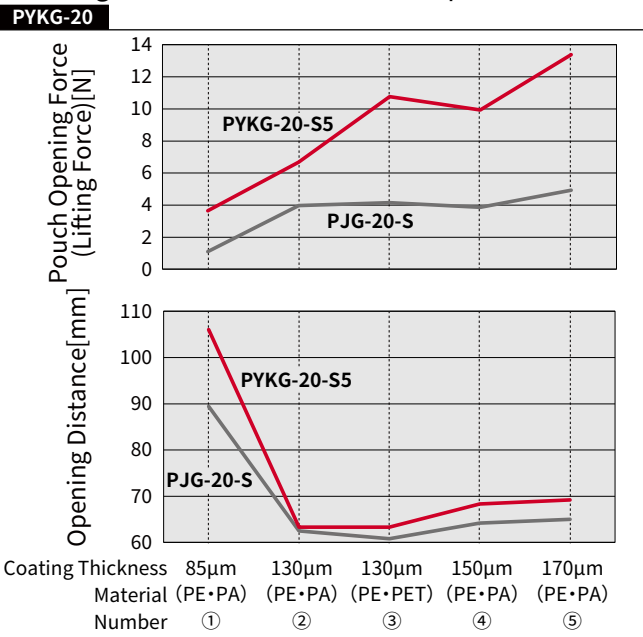


Coating Thickness: 170μm
Material (PE·PA)

【Test Conditions】
Vacuum Pressure : -92kPa
One side of the pouch opening was fixed,
and the opening force [N] and opening
distance [mm] were measured while the
opposite side was pulled vertically.



Diagram, ⑤ Measurement Setup



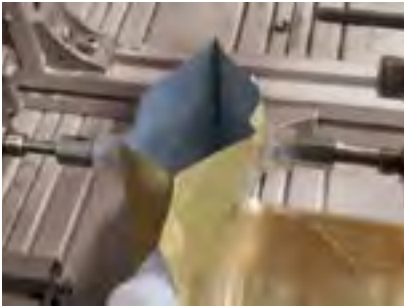
Note) The data shown are measured values obtained under our test conditions and are not guaranteed specifications.
Please use them for reference when selecting and using the product.



Pouch Opening Peel Durability Test



Before Opening



After Opening

【Test Conditions】
Vacuum Pressure : -80kPa
Pouch Bag : Material PE · PA、Thickness 170mm
The pouch bag is picked up by suction, opened, and peeled apart.
Takt Time : 0.7 s
(Suction 0.3 s ⇒ Standby 0.1 s ⇒ Opening 0.3 s)

PJG-15-S Unusable after 50,000 Cycles (Lip Tear)



PYKG-15-S5 Usable after 1,000,000 Cycles (Wear Observed)



PJG-20-S Unusable after 140,000 Cycles (Lip Puncture)



PYKG-20-S5 Unusable after 520,000 Cycles (Bellows Tear)



PJG-30-S5 Unusable after 310,000 Cycles (Lip Tear)



PYKG-30-S5 Unusable after 600,000 Cycles (Lip Tear)

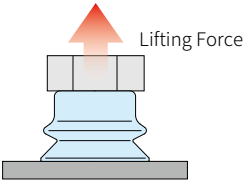


Note) The data shown are measured values obtained under our test conditions and are not guaranteed specifications.
Please use them for reference when selecting and using the product.

Lifting Force

Suction Cup	Maximum Lifting Force[N]				
	Vacuum Pressure[kPa]				
	-50	-60	-70	-80	-90
PJG-15-S	6.9	8.2	9.4	10.4	11.3
PYKG-15-S4	5.9	7.0	8.2	9.3	10.2
PYKG-15-S5	6.3	7.4	8.4	9.5	10.8
PYKG-15-SM	6.4	7.3	8.6	9.7	11.1
PJG-20-S	12.8	15.2	16.8	18.3	19.8
PYKG-20-S4	11.4	13.7	15.6	16.9	18.5
PYKG-20-S5	11.6	13.9	16.2	18.3	20.4
PYKG-20-SM	11.8	14.2	16.3	18.4	20.4
PJG-30-S	23.9	27.6	30.9	34.0	37.0
PYKG-30-S4	26.1	29.4	32.5	35.7	38.7
PYKG-30-S5	26.7	31.7	35.8	39.5	43.9
PYKG-30-SM	27.3	31.4	35.4	40.3	43.7

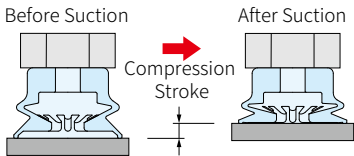
Note) The data shown are measured values obtained under our test conditions and are not guaranteed specifications.
Please use these values as a reference when selecting and using the product.
The maximum lifting force is based on the maximum force measured when a fixed flat plate is picked up by suction and peeled off.
Please design with an appropriate safety factor.
Actual performance may vary depending on the material and shape of the workpiece.
Be sure to conduct testing under actual operating conditions.



Bellows Compression Stroke

Suction Cup	Compression Stroke[mm]				
	Vacuum Pressure[kPa]				
	-50	-60	-70	-80	-90
PJG-15-S	2.6	2.6	2.7	2.8	2.8
PYKG-15-S4	3.1	3.2	3.3	3.3	3.3
PYKG-15-S5	2.9	3.0	3.0	3.1	3.2
PYKG-15-SM	2.9	3.0	3.1	3.1	3.2
PJG-20-S	3.6	3.7	3.8	3.9	4.0
PYKG-20-S4	3.4	3.5	3.6	3.7	3.7
PYKG-20-S5	3.2	3.3	3.4	3.4	3.5
PYKG-20-SM	3.2	3.3	3.4	3.5	3.5
PJG-30-S	5.1	5.2	5.3	5.4	5.5
PYKG-30-S4	5.4	5.6	5.7	5.8	5.9
PYKG-30-S5	5.1	5.2	5.3	5.4	5.5
PYKG-30-SM	5.0	5.1	5.2	5.3	5.3

Note) The data shown are measured values obtained under our test conditions and are not guaranteed specifications.
Please use these values as a reference when selecting and using the product.
The condition indicates the bellows compression stroke when the suction cup is attached to a flat plate.



Precautions for Pouch Opening Suction Cups (PYK Series)



Official website

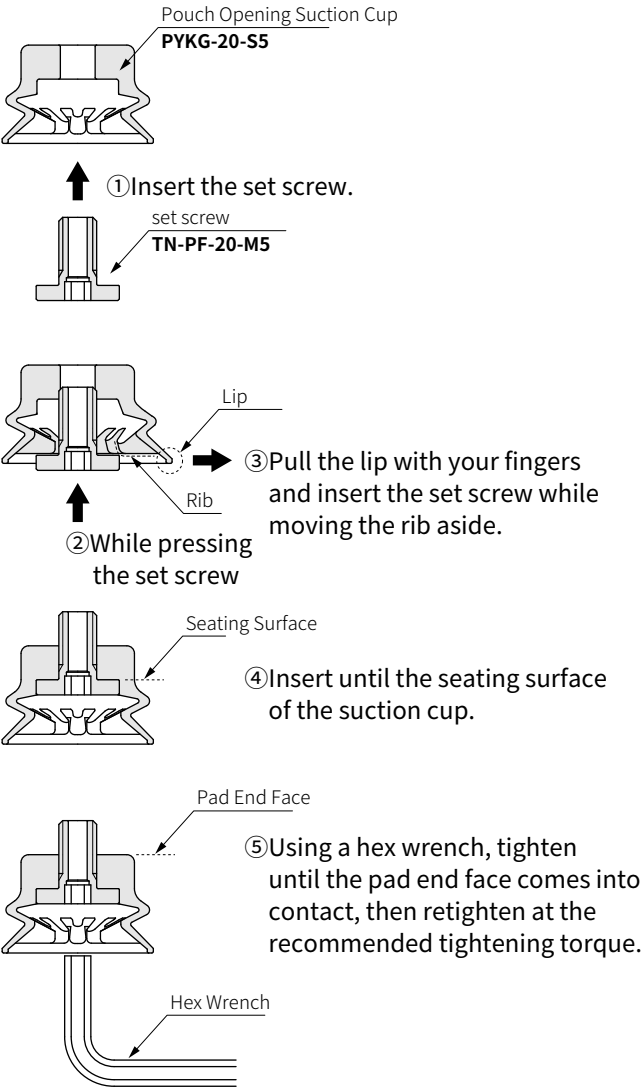
Before use, be sure to read the "For Safe Use" section in this catalog, the "General Precautions" and "Common Precautions for CONVUM Products" in the General Catalog, as well as the Instruction Manual for this product.
<https://www.convum.co.jp/english/index.html>

Compatibility with the PJG Series

Caution

Although compatible with the PJG Series (2 Bellows Suction Cups), suction performance may be affected depending on the workpiece, and suction may not be possible in some cases. Therefore, when replacing a PJG Series product, be sure to conduct a suction test in advance.

Mounting



Suction Pad	Set screw	Recommended Tightening Torque
PYKG-15	TN-PF-15-M5	90°~ 180° (6 ~ 10[cN・m])
PYKG-20	TN-PF-20-M5	90°~ 180° (7 ~ 11[cN・m])
PYKG-30	TN-PF-25-M6	90°~ 180° (10 ~ 15[cN・m])

Caution

Do not perform tightening at or above the recommended tightening torque.Excessive tightening may deform the mounting section and increase the risk of rubber tearing or cracking. It may also deform the pad lip shape, reducing its ability to conform to the workpiece. If loosening occurs at the recommended tightening torque, use a thread-locking adhesive.The recommended thread-locking adhesive is LOCTITE® 242.



Fixed Attachment

PFTK-15-K

① Vacuum Takeoff Direction

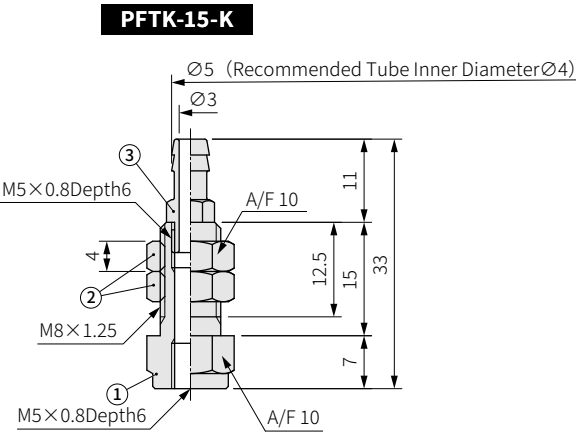
T	Vertical
Y	Horizontal

② Size (Applicable Model)

15	PYKG-15, TN-PF-15-M5 PYKG-20, TN-PF-20-M5
25	PYKG-30, TN-PF-25-M6

Note 1) Set screws are not included and must be purchased separately.
Note 2) The conventional attachment and suction cup are not available as a combined product.

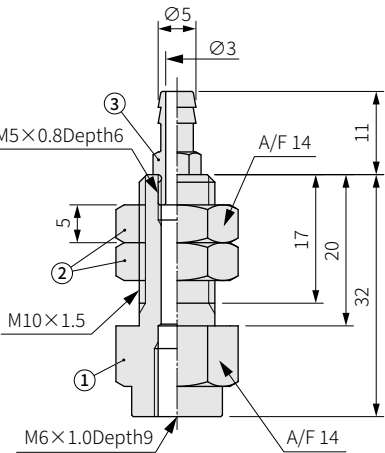
Dimensions Scale (1/1)



Material Table

No.	Part Name	Material / Surface Treatment
①	Attachment	Brass / Nickel Plating
②	Nut	Brass / Nickel Plating
③	barb fitting	Brass / Nickel Plating

PFTK-25-K



Material Table

No.	Part Name	Material / Surface Treatment
①	Attachment	Brass / Nickel Plating
②	Nut	Brass / Nickel Plating
③	barb fitting	Brass / Nickel Plating

PFTK-25-K

PFYK-25-K

PFYK-15-K

Model Number List and Mass

CODE	Model Number	Mass
318000023	PFTK-15-K	11g
318000029	PFYK-15-K	14g
318000024	PFTK-25-K	32g
318000030	PFYK-25-K	34g

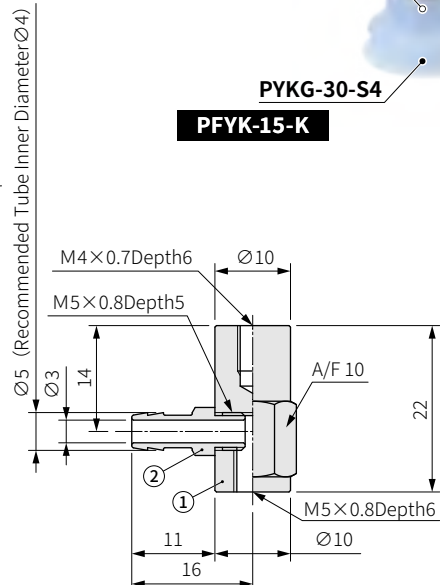
TN-PF-30-M6
(Set Screw)

TN-PF-30-M6
(Set Screw)

PYKG-30-S4

PYKG-30-SM

PFYK-15-K

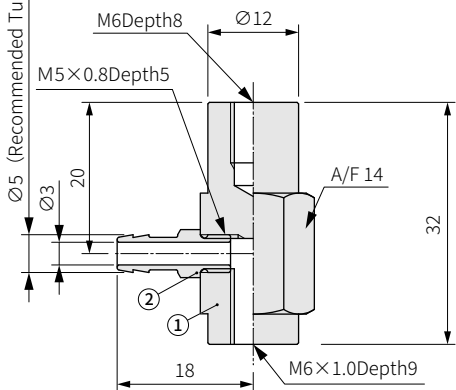


Material Table

No.	Part Name	Material / Surface Treatment
①	Attachment	Brass / Nickel Plating
②	barb fitting	Brass / Nickel Plating

Ø5 (Recommended Tube Inner Diameter Ø4)

PFYK-25-K



Material Table

No.	Part Name	Material / Surface Treatment
①	Attachment	Brass / Nickel Plating
②	barb fitting	Brass / Nickel Plating



Fixed Attachment (CRKT)

CRK-FP M5 TZ-R

① Attachment Material

FP	Aluminum Alloy
SFP	SUS304

Note 1) FP models are sold in sets of two.

② Pad Side Thread Size

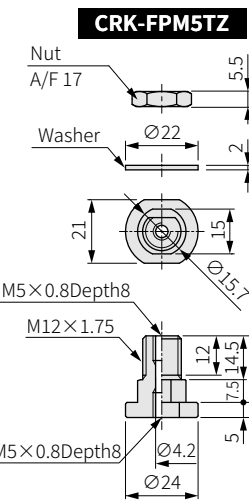
M5	M5×0.8
M6	M6×1.0

③ Vacuum Side Thread Size

TZ	M5×0.8
TZ-R	Rc1/8

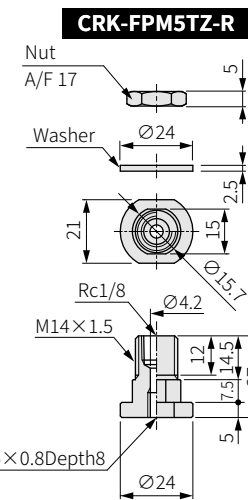
Note 2) If SFP is selected in ①, only TZ can be selected.
Note 3) Set screws are not included and must be purchased separately.

Dimensions Scale (2/5)



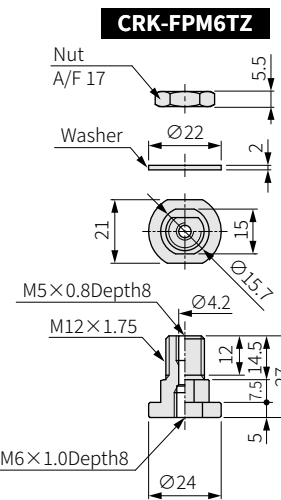
Material

Attachment	Aluminum Alloy / Anodized
Nut	SUS304
Washer	Steel / Trivalent Chromate



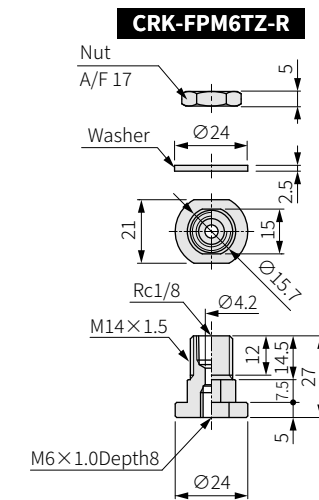
Material

Attachment	Aluminum Alloy / Anodized
Nut	Brass / Nickel Plating
Washer	Steel / Trivalent Chromate



Material

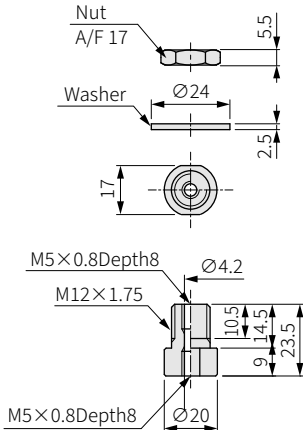
Attachment	Aluminum Alloy / Anodized
Nut	SUS304
Washer	Steel / Trivalent Chromate



Material

Attachment	Aluminum Alloy / Anodized
Nut	Brass / Nickel Plating
Washer	Steel / Trivalent Chromate

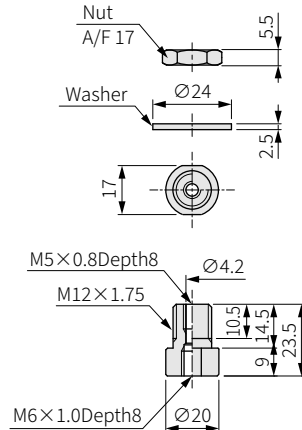
CRK-SFPM5TZ



Material

Attachment	SUS304
Nut	SUS304
Washer	SUS304

CRK-SFPM6TZ



Material

Attachment	SUS304
Nut	SUS304
Washer	SUS304

Model Number List / Mass

CODE	Model Number	Mass
502600135	CRK-FPM5TZ ^{Note 4)}	13g
502600457	CRK-FPM5TZ-R ^{Note 4)}	20g
502600134	CRK-FPM6TZ ^{Note 4)}	13g
502600456	CRK-FPM6TZ-R ^{Note 4)}	20g
502600647	CRK-SFPM5TZ	40g
502600642	CRK-SFPM6TZ	39g

Note 4) When FP is selected for Model Number ①, one order consists of a set of two units.
Note 5) The mass shown is for one product unit.

Buffer Type Attachment for PYKG-15

NAPC T S-10-3-K

① Vacuum Takeoff Direction

T	Vertical
Y	Horizontal

② Buffer Stroke

3	3mm
10	10mm
15	15mm

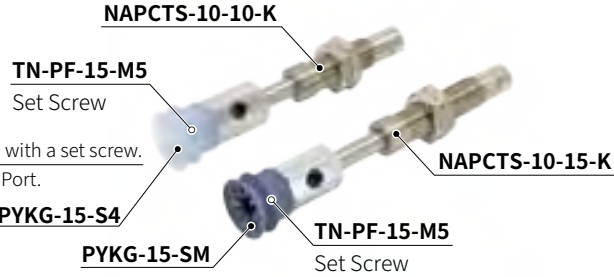
Note 1) Set screws are not included and must be purchased separately.

Note 2) The conventional attachment and suction cup are not available as a combined product.

When ① is T, it serves as the Vacuum Port.
When ① is Y, the flow path is blocked with a set screw.

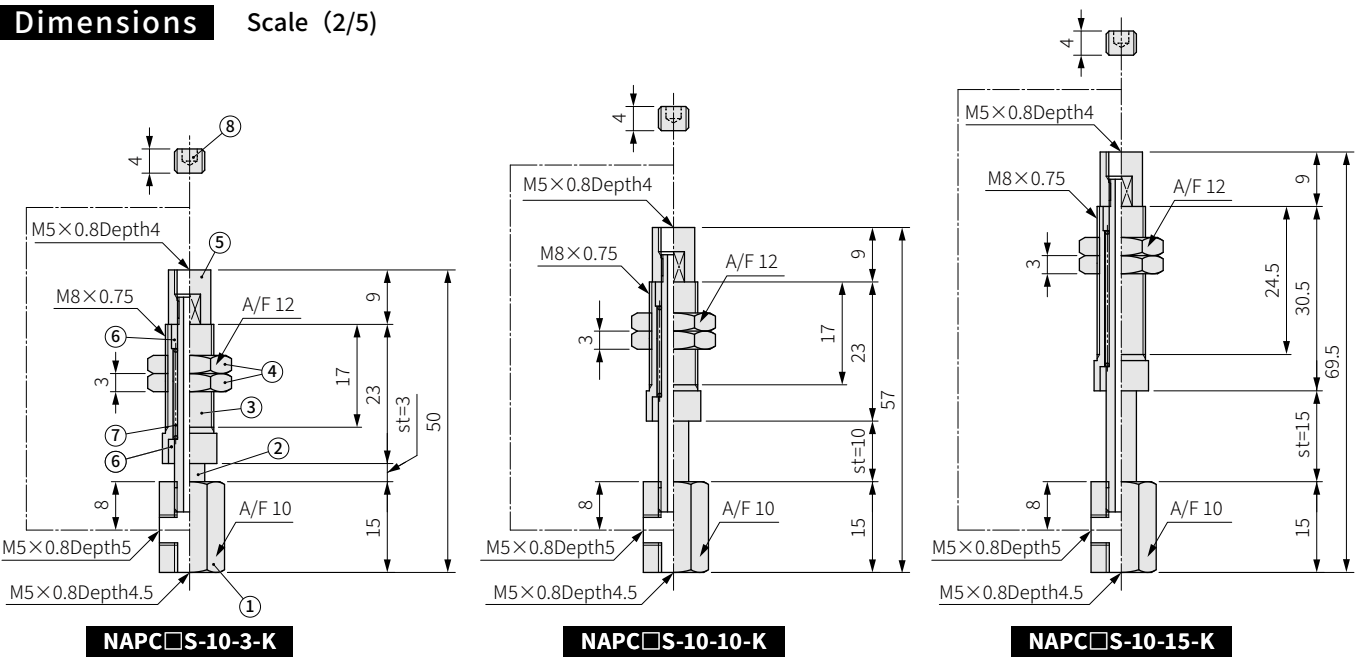
Model Number List / Mass

CODE	Model Number	Mass
318000054	NAPCTS-10-3-K	17g
318000055	NAPCTS-10-10-K	17g
318000056	NAPCTS-10-15-K	20g
318000419	NAPCYS-10-3-K	17g
318000076	NAPCYS-10-10-K	17g
318000077	NAPCYS-10-15-K	20g



Configuration Examples

Dimensions Scale (2/5)



Material Table

No.	Part Name	Material / Surface Treatment	No.	Part Name	Material / Surface Treatment
①	Adapter	Aluminum Alloy / Zirconium Conversion Coating	⑤	Stopper	Brass / Nickel Plating
②	Shaft	Stainless Steel	⑥	Bearing	PTFE/Sintered Bronze Layer / Steel
③	Mounting Fixture	Brass / Nickel Plating	⑦	Spring	Stainless Steel
④	Nut	Brass / Nickel Plating	⑧	Set screw	Steel / Black Oxide Coating

Note) The materials are common to all sizes.

Anti-Rotation Buffer Type Attachment for PYKG-15

NAPC T H-10-3-K

① Vacuum Takeoff Direction

T	Vertical
Y	Horizontal

② Buffer Stroke

3	3mm
10	10mm
15	15mm

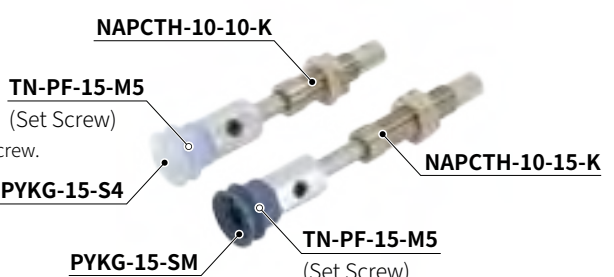
Note 1) Set screws are not included and must be purchased separately.

Note 2) The conventional attachment and suction cup are not available as a combined product.

When ① is T, it serves as the Vacuum Port.
When ① is Y, the flow path is blocked with a set screw.

Model Number List / Mass

CODE	Model Number	Mass
318000095	NAPCTH-10-3-K	16g
318000096	NAPCTH-10-10-K	17g
318000097	NAPCTH-10-15-K	20g
318000111	NAPCYH-10-3-K	16g
318000112	NAPCYH-10-10-K	17g
318000113	NAPCYH-10-15-K	20g



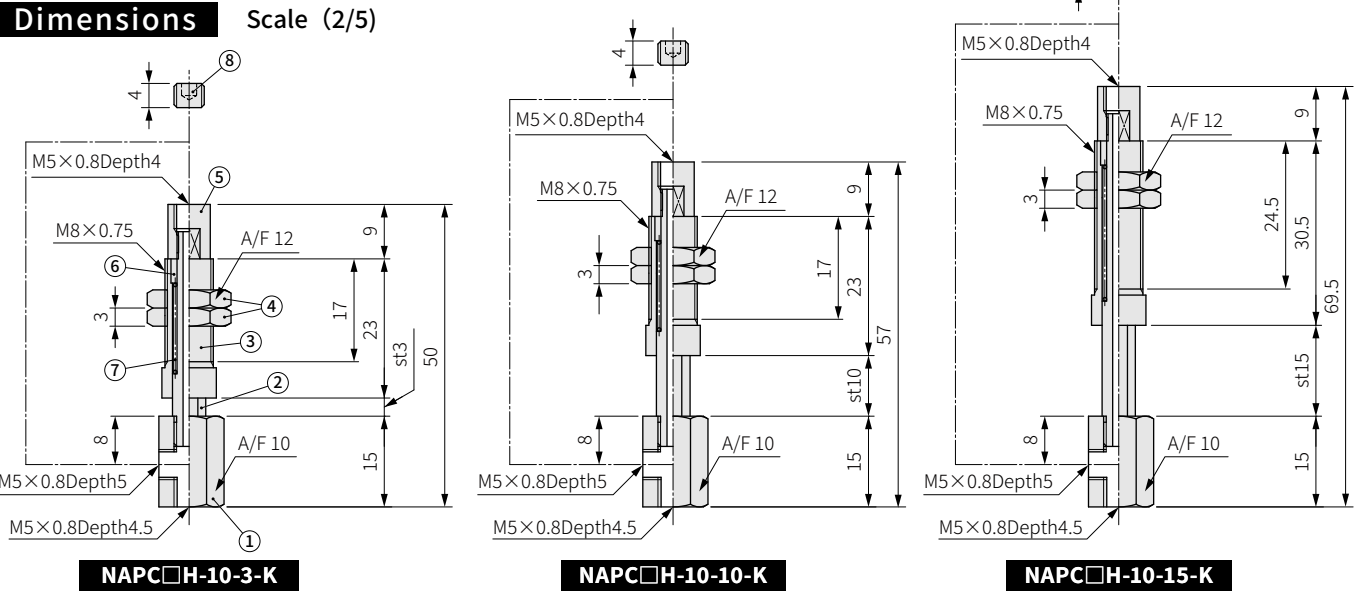
Configuration Examples

Explanation of the Anti-Rotation Mechanism



The hexagonal shaft section prevents rotation.

Dimensions Scale (2/5)

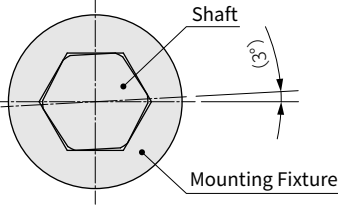


Material Table

No.	Part Name	Material / Surface Treatment	No.	Part Name	Material / Surface Treatment
①	Adapter	Aluminum Alloy / Zirconium Conversion Coating	⑤	Stopper	Brass / Nickel Plating
②	Shaft	Stainless Steel	⑥	Bearing	PTFE/Sintered Bronze Layer / Steel
③	Mounting Fixture	Brass / Nickel Plating	⑦	Spring	Stainless Steel
④	Nut	Brass / Nickel Plating	⑧	Set screw	Steel / Black Oxide Coating

Note) The materials are common to all sizes.

Clearance of Hexagonal Section (Reference Value)



NAPC H-10

Buffer Type Attachment for PYKG-20

NAPB T S-20-6-K

① Vacuum Takeoff Direction

T	Vertical
Y	Horizontal

② Buffer Stroke

6	6mm
15	15mm
30	30mm

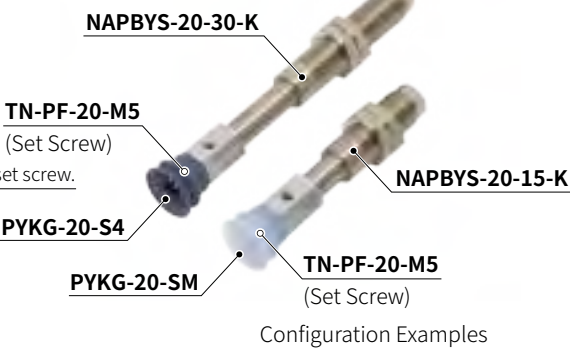
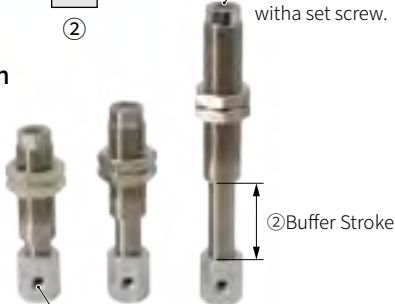
Note 1) Set screws are not included and must be purchased separately.

Note 2) The conventional attachment and suction cup are not available as a combined product.

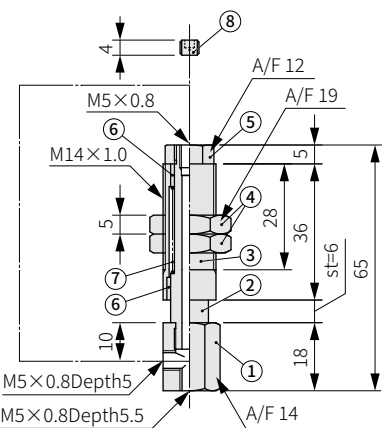
When ① is T, it serves as the Vacuum Port.
When ① is Y, the flow path is blocked with a set screw.

Model Number List / Mass

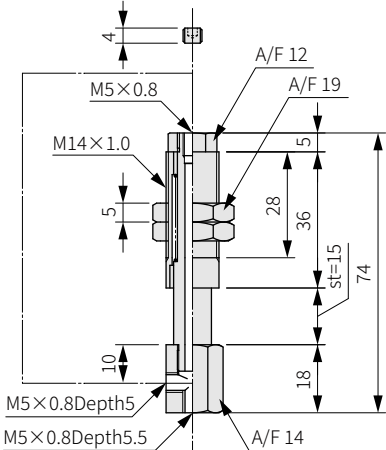
CODE	Model Number	Mass
318000051	NAPBTS-20-6-K	60g
318000052	NAPBTS-20-15-K	65g
318000053	NAPBTS-20-30-K	90g
318000404	NAPBYS-20-6-K	60g
318000341	NAPBYS-20-15-K	65g
318000660	NAPBYS-20-30-K	90g



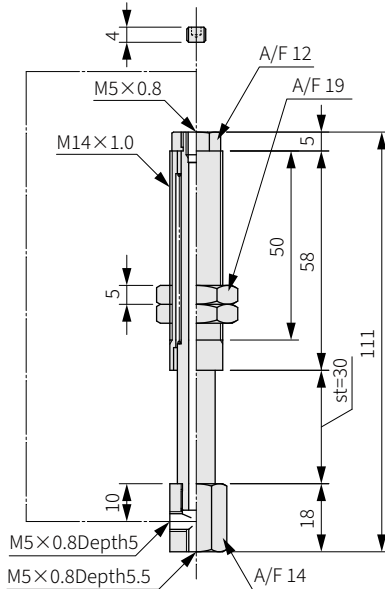
Dimensions Scale (1/2)



NAPB S-20-6-K



NAPB S-20-15-K



NAPB S-20-30-K

Material Table

No.	Part Name	Material / Surface Treatment	No.	Part Name	Material / Surface Treatment
①	Adapter	Aluminum Alloy / Zirconium Conversion Coating	⑤	Stopper	Brass / Nickel Plating
②	Shaft	Stainless Steel	⑥	Bearing	PTFE/Sintered Bronze Layer / Steel
③	Mounting Fixture	Brass / Nickel Plating	⑦	Spring	Stainless Steel
④	Nut	Brass / Nickel Plating	⑧	Set screw	Steel / Black Oxide Coating

Note) The materials are common to all sizes.

Anti-Rotation Buffer Type Attachment for PYKG-20

NAPB T H-20-6-K

① Vacuum Takeoff Direction

T	Vertical
Y	Horizontal

② Buffer Stroke

6	6mm
15	15mm
30	30mm

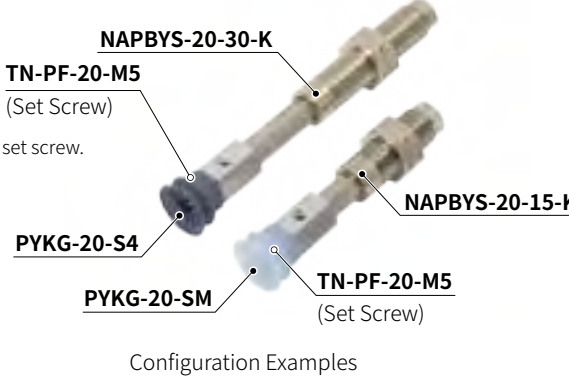
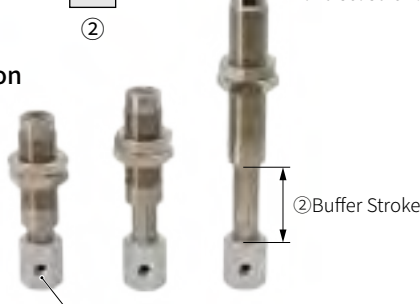
Note 1) Set screws are not included and must be purchased separately.

Note 2) The conventional attachment and suction cup are not available as a combined product.

When ① is T, it serves as the Vacuum Port.
When ① is Y, the flow path is blocked with a set screw.

Model Number List / Mass

CODE	Model Number	Mass
318000089	NAPBTH-20-6-K	60g
318000090	NAPBTH-20-15-K	64g
318000091	NAPBTH-20-30-K	87g
318000106	NAPBYH-20-6-K	60g
318000107	NAPBYH-20-15-K	64g
318000108	NAPBYH-20-30-K	87g

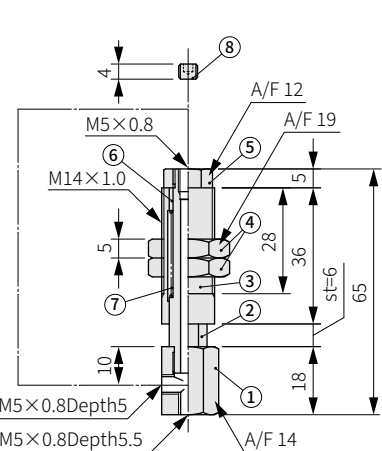


Explanation of the Anti-Rotation Mechanism

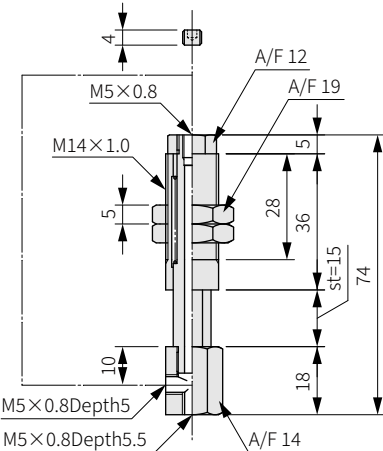


The hexagonal shaft section prevents rotation.

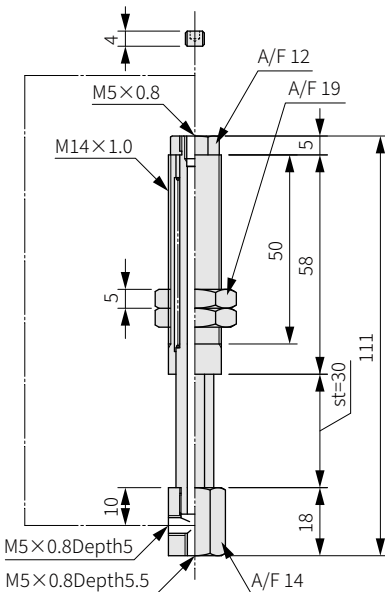
外形図 スケール (1/2)



NAPB H-20-6-K



NAPB H-20-15-K



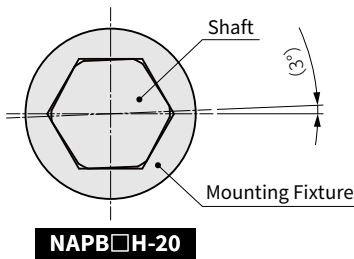
NAPB H-20-30-K

Material Table

No.	Part Name	Material / Surface Treatment	No.	Part Name	Material / Surface Treatment
①	Adapter	Aluminum Alloy / Zirconium Conversion Coating	⑤	Stopper	Brass / Nickel Plating
②	Shaft	Stainless Steel	⑥	Bearing	PTFE/Sintered Bronze Layer / Steel
③	Mounting Fixture	Brass / Nickel Plating	⑦	Spring	Stainless Steel
④	Nut	Brass / Nickel Plating	⑧	Set screw	Steel / Black Oxide Coating

Note) The materials are common to all sizes.

Clearance of Hexagonal Section (Reference Value)



Buffer Type Attachment for PYKG-30

NAPF T S-20B-6-K

① Vacuum Takeoff Direction

T	Vertical
Y	Horizontal

② Buffer Stroke

6	6mm
15	15mm
30	30mm

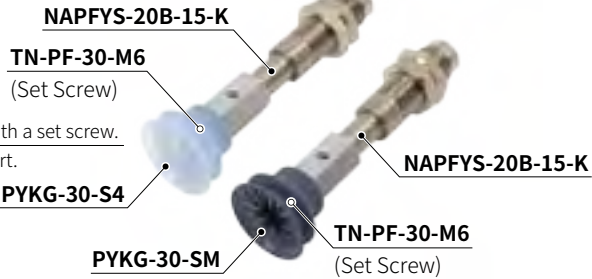
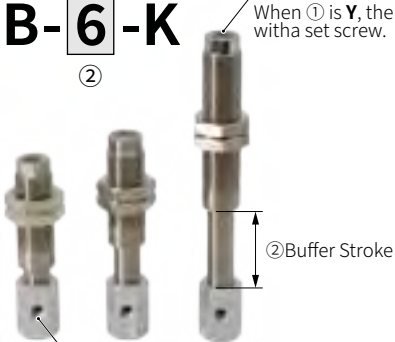
Note 1) Set screws are not included and must be purchased separately.

Note 2) The conventional attachment and suction cup are not available as a combined product.

When ① is T, it serves as the Vacuum Port.
When ① is Y, the flow path is blocked with a set screw.

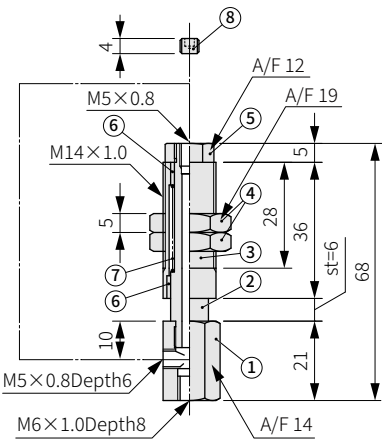
Model Number List / Mass

CODE	Model Number	Mass
318000043	NAPF TS-20B-6-K	66g
318000044	NAPF TS-20B-15-K	67g
318000045	NAPF TS-20B-30-K	91g
318000067	NAPFYS-20B-6-K	66g
318000068	NAPFYS-20B-15-K	67g
318000069	NAPFYS-20B-30-K	91g

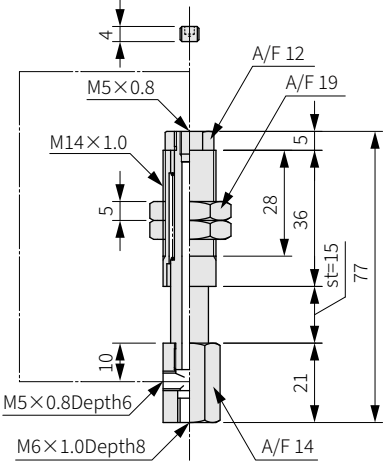


Configuration Examples

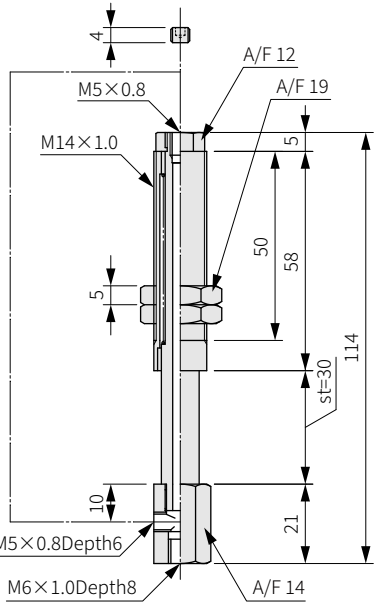
Dimensions Scale (1/2)



NAPF S-20B-6-K



NAPF S-20B-15-K



NAPF S-20B-30-K

Material Table

No.	Part Name	Material / Surface Treatment	No.	Part Name	Material / Surface Treatment
①	Adapter	Aluminum Alloy / Zirconium Conversion Coating	⑤	Stopper	Brass / Nickel Plating
②	Shaft	Stainless Steel	⑥	Bearing	PTFE/Sintered Bronze Layer / Steel
③	Mounting Fixture	Brass / Nickel Plating	⑦	Spring	Stainless Steel
④	Nut	Brass / Nickel Plating	⑧	Set screw	Steel / Black Oxide Coating

Note) The materials are common to all sizes.

Anti-Rotation Buffer Type Attachment for PYKG-30

NAPF T H-20B-6-K

① Vacuum Takeoff Direction

T	Vertical
Y	Horizontal

② Buffer Stroke

6	3mm
15	10mm
30	15mm

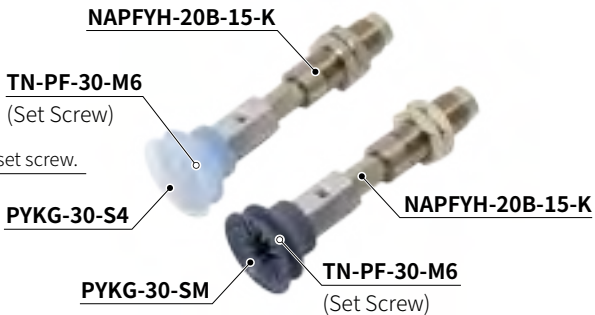
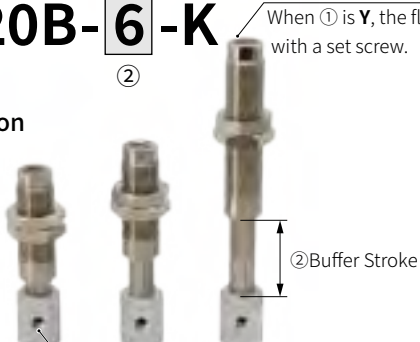
Note 1) Set screws are not included and must be purchased separately.

Note 2) The conventional attachment and suction cup are not available as a combined product.

When ① is T, it serves as the Vacuum Port.
When ① is Y, the flow path is blocked with a set screw.

Model Number List / Mass

CODE	Model Number	Mass
318000086	NAPFTH-20B-6-K	65g
318000087	NAPFTH-20B-15-K	66g
318000088	NAPFTH-20B-30-K	90g
318000104	NAPFHYH-20B-6-K	65g
318000105	NAPFHYH-20B-15-K	66g
318000519	NAPFHYH-20B-30-K	90g



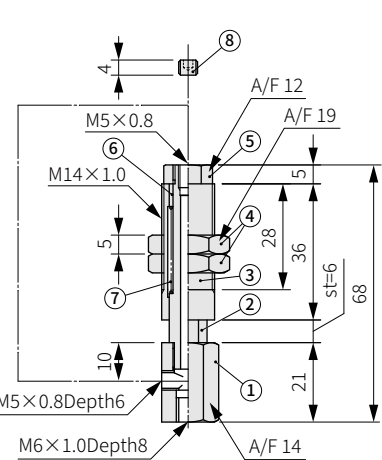
Configuration Examples

Explanation of the Anti-Rotation Mechanism

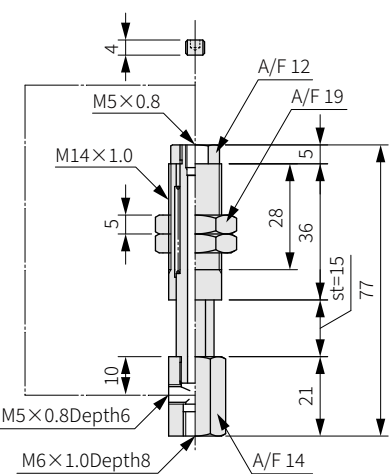


The hexagonal shaft section prevents rotation.

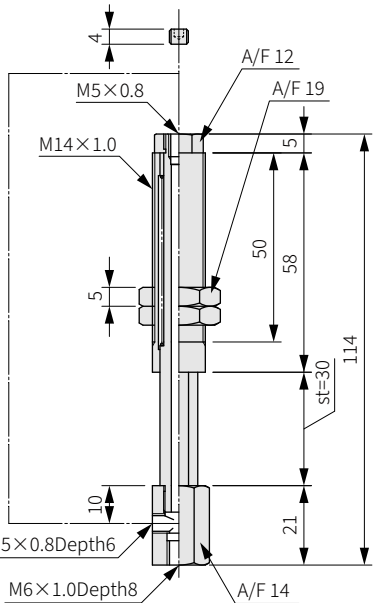
Dimensions Scale (1/2)



NAPF H-20B-6-K



NAPF H-20B-15-K



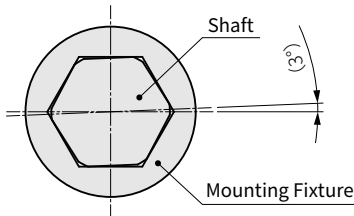
NAPF H-20B-30-K

Material Table

No.	Part Name	Material / Surface Treatment	No.	Part Name	Material / Surface Treatment
①	Adapter	Aluminum Alloy / Zirconium Conversion Coating	⑤	Stopper	Brass / Nickel Plating
②	Shaft	Stainless Steel	⑥	Bearing	PTFE/Sintered Bronze Layer / Steel
③	Mounting Fixture	Brass / Nickel Plating	⑦	Spring	Stainless Steel
④	Nut	Brass / Nickel Plating	⑧	Set screw	Steel / Black Oxide Coating

Note) The materials are common to all sizes.

Clearance of Hexagonal Section (Reference Value)



NAPF H-20B

⚠ Safety Instructions

Be sure to read these precautions before use.
Also read and understand the safety instructions provided for each product series.

These safety instructions are intended to prevent personal injury and damage to equipment.
Potential hazards are classified using the labels[DANGER],[WARNING], and[CAUTION].
All of these notices are important and must be observed.

⚠ **DANGER** DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ **WARNING** WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ **CAUTION** CAUTION indicates a hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

Please also refer to JIS B 8370*1 and ISO 4414*2. Please comply with the Industrial Safety and Health Law, the High Pressure Gas Safety Act, and other applicable safety regulations.

- * 1 JIS B 8370 : Pneumatic fluid power — General rules relating to systems.
- * 2 ISO 4414 : Pneumatic fluid power — Recommendations for the application of equipment to transmission and control systems.

Even the matters described under [CAUTION] may result in serious consequences depending on the circumstances.
All of these notices are important and must be observed.

⚠ WARNING

●Vacuum and pneumatic equipment shall be selected properly.

The compatibility of the vacuum and pneumatic equipment is the responsibility of the person who designs the equipment or decides its specifications.

Since the products specified here are used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results.

The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product.
This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

●Only personnel with appropriate training should operate machinery and equipment.

Inappropriate usage or handling may cause injury, equipment damage or indirect damage.

Vacuum and pneumatic equipment is intended for industrial use.
The assembly, operation and maintenance of machinery or equipment including our products must be performed by an operator who is appropriately trained and experienced.

●Do not operate or reinstall the equipment or machine without first performing a safety check.

- When inspecting or adjusting the equipment, make sure to take measures against the dropping or uncontrolled movements of the actuators.
- Before reinstallation, make sure to switch off power and compressed air supply.
- Before restart, make sure that no parts can break off.

●Use this pneumatic equipment only in accordance with the specifications.

Contact CONVUM when using it outside the specifications specifications.

- Environments outside the specifications, like using in outdoor applications.
- nuclear energy, railways, airplanes, railway cars, ships, medical equipment, food or beverage processing equipment, pharmaceutical equipment, emergency, cutout and similar devices with security issues.
- All machinery which in case of wrong handling or operating might pose hazardous effects on human life or property.

Warranty and Disclaimer

1、Warranty

①If a failure occurs during the warranty period and is determined to be the responsibility of CONVUM, we will provide a replacement product or the necessary replacement parts free of charge, or repair the product free of charge.

②The warranty period for our products is one year from the start of operation or 18 months from the date of delivery, whichever comes first.

However, some products may have specified durability limits, such as operating cycles or sliding distance. For details, please contact our Customer Support Center.

③The suction cup is a consumable component. Therefore, the one-year warranty period from the start of operation does not apply, and the warranty period is one year from the date of delivery.

However, deterioration of the rubber material or wear resulting from the use of the suction cup is not covered by the warranty, even during the warranty period.

2、Disclaimer

①The warranty does not apply in the following cases:

- Use outside the specifications stated in this catalog or other specification documents.
- Failures caused by factors other than this product.
- Failures or damage resulting from modifications or any other causes not attributable to CONVUM.
- Failures caused by factors that could not reasonably have been foreseen based on the state of technical knowledge at the time of delivery.
- Failures or damage caused by natural disasters, accidents, actions of third parties, intentional acts or negligence by the customer, or other force majeure events.

②This warranty applies only to the product itself and does not cover any indirect, incidental, or consequential damages resulting from product failure.

Specifications are subject to change without notice.
For operating instructions and precautions, refer to our catalog and instruction manual.
For delivery lead times, please contact our Customer Support Center.

CONVUM Ltd.

6-18 Shimomaruko2-chome, Ohta-ku, Tokyo 146-0092, Japan
TEL +81-3-5741-7201

ContactInformation
<https://convum.com/contact>