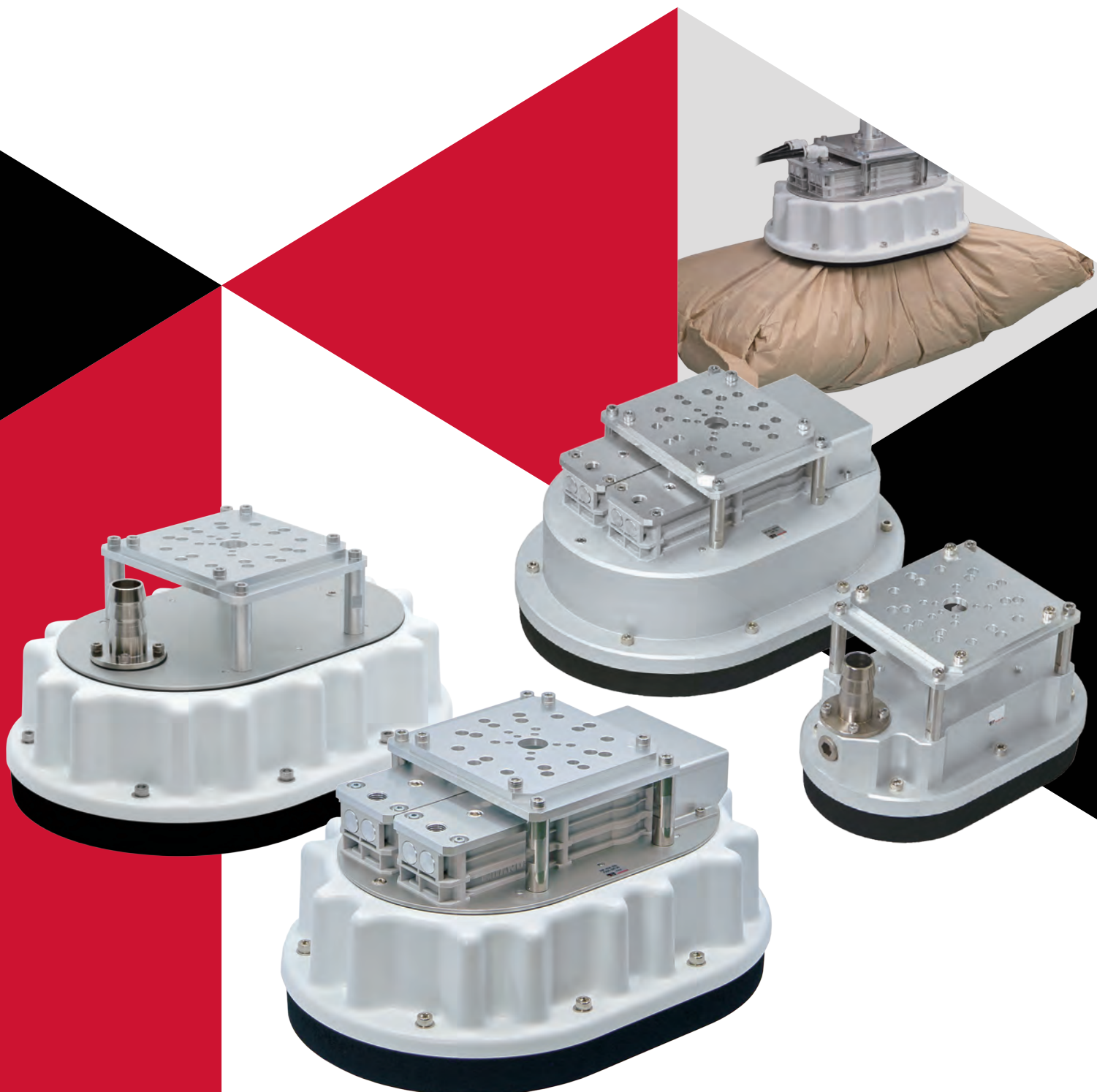


CONVUM

**SGP-H2
SGP-H3**
series

Vacuum Hand for Kraft Paper Bags



Vacuum Hand for Kraft Paper Bags

SGP-H2
SGP-H3
series

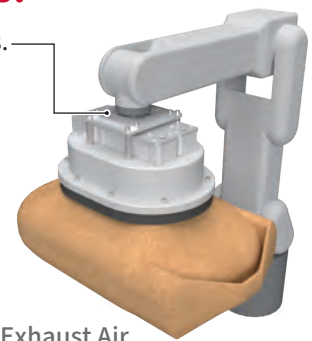
Ideal Robot Hand for Vacuum Handling of Air-Permeable Kraft Paper Bags.

The top flange allows mounting to various robots.

SGP-H□A : P.C.D.100/80/50/31.5

SGP-H□B : P.C.D.90/63/40

A multi-stage ejector is integrated into the top of the unit. Its high suction flow rate enables suction of paper bags with large wrinkles and air-permeable paper bags.



Compressed Air Supply

Vacuum Pressure Check
or Vacuum Break Air
Supply Port

Exhaust Air

Suction Port



Multiple suction ports in the stopper prevent a drop in vacuum pressure at the stopper contact surface.

The narrow, thick sponge pad conforms to deformation of the bag and prevents vacuum leakage.

Highly effective for **kraft paper bags with significant deformation and high air permeability.**

With a Thick Sponge

With a Thin Sponge

Vacuum Leakage

Vacuum Leakage Due to
Air-Permeability

Contents

Contents



PET Bottle



Rice



○ Shrink Wrapping (20kg) ○ Kraft Paper Bag (30kg) ○ Corrugated Box with PP Band

With the lightweight resin body type (SGP-H3), a 25 kg kraft paper bag can be handled by a 30 kg payload robot.

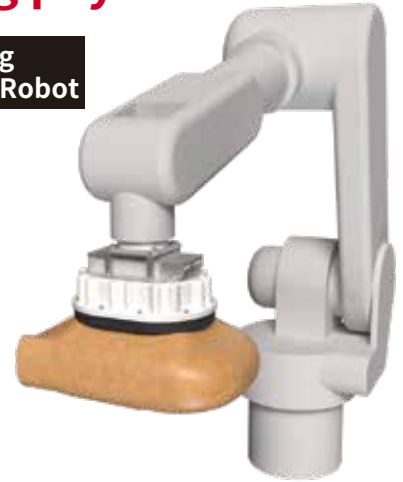


Mass **3.6kg**
Approximately 2 kg lighter than the 5.4 kg SGP-H2.

Lightweight Resin Body
Material : Acrylic-Modified High-Impact Polyvinyl Chloride (KYDEX®)

**Kraft Paper Bag
25kg**

**30kg
Payload Robot**

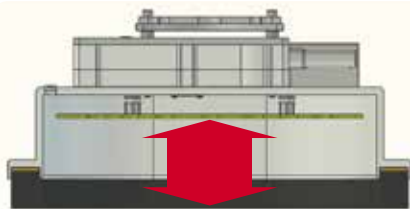


KYDEX® is a registered trademark of Sumitomo Bakelite Co., Ltd.

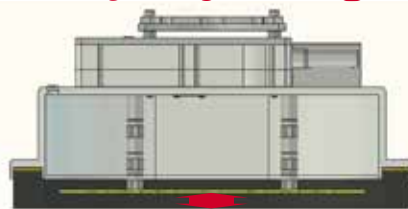
KYDEX® is a material with excellent chemical resistance and high impact resistance comparable to polycarbonate.

It has been adopted for a wide range of industrial applications, including medical devices and railway vehicle interiors.

Reduce suction marks by adjusting stopper depth.



Up to 80 mm



Minimum 10 mm



The depth can be adjusted by combining the supplied stopper posts.



○Plastic bag(30kg)



**Suction Marks with
Deep Stopper Setting**



**Suction Marks with
Shallow Stopper Setting**

When the stopper is set shallow, the amount of bag material drawn into the pad is reduced, which helps minimize suction marks.

Conversely, when the stopper is set deeper, more bag material is drawn into the pad, increasing the contact area and improving holding force.

Please adjust the stopper depth to suit your application requirements.

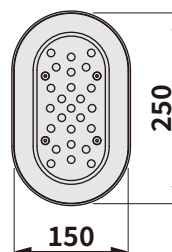
Two sizes available to suit different bag sizes.

**Ejector-equipped
model**

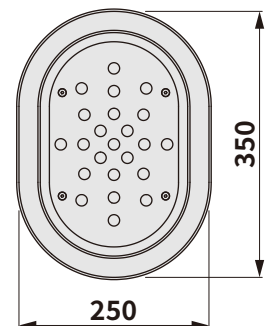
**SGP-H2□-250X350
-CRT30**

**External Vacuum
Source Model**

**SGP-H2□-150X250
-CRT30-G02**



SGP-H2□-150X250



SGP-H2□-250X350

Model Number

SGP-H3 **A** -250X350-CRT30

① ②

③

④

⑤

① Body Material

3 Lightweight Resin Body

② Flange Plate

A P.C.D.100/80/50/31.5**B** P.C.D.90/63/40

③ Sponge Size

250X350 Vertical 250mm Horizontal 350mm

④ Sponge Material / Thickness

	Material	Hardness	Color	Operating Temperature Range ^{Note 1)}	Thickness
CRT30	Chloroprene Sponge Rubber	ASKER C 8	Black	-55~150°C	30mm

Note 1) The operating temperature range applies to the rubber material only.
Performance may vary near the upper and lower temperature limits.
Be sure to conduct testing under actual operating conditions.

⑤ Vacuum Source

No Symbol	Equipped with an Ejector
-G02	External Vacuum Source ^{Note 2)}

Note 2) The recommended hose inner diameter is 25 mm.
Secure the hose with a hose clamp.

Vacuum Pressure Monitoring
or Blow-Off Air Supply Port

Supply Port

② Flange Plate

Exhaust Port

③④ Sponge Size / Material

SGP-H3□-250X350-CRT30

⑤ Ejector-Integrated Model

Vacuum Pressure Monitoring
or Blow-Off Air Supply PortVacuum Source Connection Port^{Note 2)}

Model Number List and Mass

CODE	Model Number	Mass
502700287	SGP-H3A-250X350-CRT30	3.6 kg ^{Note 3)}
502700288	SGP-H3B-250X350-CRT30	3.6 kg ^{Note 3)}
502700315	SGP-H3A-250X350-CRT30-G02	2.8 kg
502700316	SGP-H3B-250X350-CRT30-G02	2.8 kg

Note 3) Product mass has been changed for products manufactured from March 2026 onward (Lot No. 6301 and later).
For details, please refer to "Important Design Changes" on the following page.

SGP-H3□-250X350-CRT30-G02

⑤ External Vacuum Source Model

Specifications

		Unit	SGP-H3□-250X350	SGP-H3□-G02
Operating Fluid			Oil-Free Compressed Air	Air
Operating Ambient Temperature Range		°C	0 ~ 50 (provided that there is no freezing)	
Operating Pressure Range			0.15 ~ 0.60 [MPa]	0 ~ -85 [kPa]
Built-in Ejector Performance	Rated Pressure	MPa	0.55	-
	Ultimate Vacuum Pressure	kPa	-85	
	Suction Flow Rate	L/min(ANR)	1208	
	Air Consumption	L/min(ANR)	480	
Exhaust Noise Level	During Suction	dB(A)	72	
	Without Suction		88	

Note) Please conduct an actual suction test with the workpiece before selecting the model.

Maintenance Parts

Replacement Sponge (with Sponge Ring)

SPHL 250X350 CRT30

Note 1) ① Compatible with previous models
SGP-H3 and SGP-H2.

① Sponge Ring Material

L Aluminum Alloy (Lightweight Model)

② Sponge Size (Applicable Models)

250X350 SGP-H3□-250X350-CRT30-□

Model Number List and Mass

CODE	Model Number	Mass
518000201	SPHL250X350CRT30	430g



Gasket (For SGP-H3 Only)

SPH250X350GK

Note 2) This gasket is a dedicated part for the SGP-H3. It is used to seal air leakage caused by the ribbed structure of the body.

Gasket^{Note 2)}

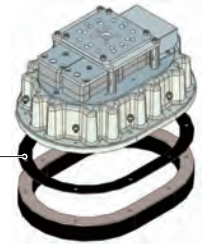
SPH250X350GK

① Sponge Size (Compatible Models)

250X350 SGP-H3□-250X350-CRT30

Model Number List and Mass

CODE	Model Number	Mass
518000196	SPH250X350GK	32g

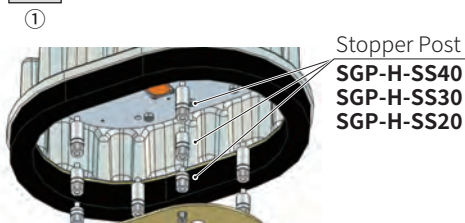


Stopper Posts (4 pcs.)

SGP-H-SS 20

① Length

20	19mm
30	29mm
40	39mm



Stopper Post
SGP-H-SS40
SGP-H-SS30
SGP-H-SS20

Model Number List and Mass

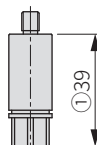
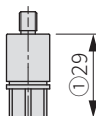
CODE	Model Number	Mass ^{Note 3)}
518000185	SGP-H-SS20	31g
518000186	SGP-H-SS30	51g
518000187	SGP-H-SS40	71g

Note 3) Mass for 4 pcs.

SGP-H-SS20

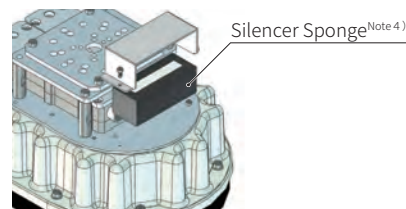
SGP-H-SS30

SGP-H-SS40



Silencer Sponge (with Double-Sided Tape)

SPH250X350SS



Silencer Sponge^{Note 4)}

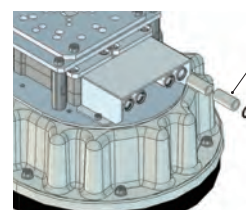
Model Number List and Mass

CODE	Model Number	Mass
518000200	SPH250X350SS	6g

Note 4) Cannot be used as a replacement for the silencer element used in previous models.

Silencer Elements (4 pcs.) [For Previous Models]

SGP-CVZ-SE



Silencer Element

Note) For the SGP-H3□-250X350, a total of 8 pieces are used. To replace all of them, please purchase 2 sets.

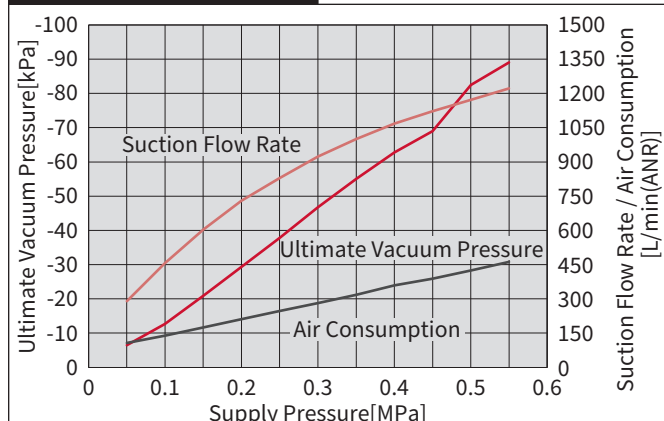
Model Number List and Mass

CODE	Model Number	Mass ^{Note 5)}
518000118	SGP-CVZ-SE	0.8g

Note 5) Mass of 4 pcs.

搭載エジェクタ性能

SGP-H3□-250X350-CRT30



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

Angular Misalignment Compensation Buffer Flange

SGP-BFL-A

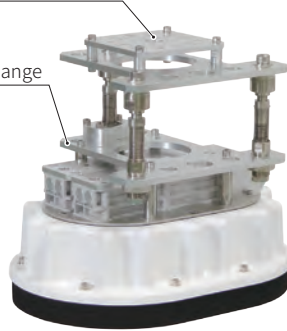
①

Angular Misalignment Compensation Buffer Flange
SGP-BFL-□

① Flange Plate

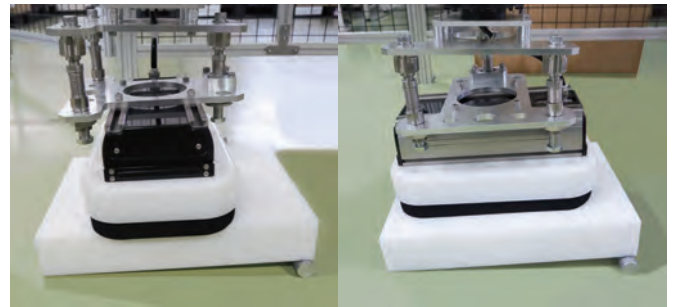
A	P.C.D.100/80/50/31.5
B	P.C.D.90/63/40

① Flange Plate



Function Description of Angular Misalignment Compensation Buffer Flange

The spherical joint and buffer operate three-dimensionally to absorb workpiece inclination (total angular range: 10°, ±5°). This allows the pad to grip the workpiece without requiring precise angle alignment. It is particularly effective for Cartesian robots that cannot adjust their angle and for workpieces with irregular heights or inclinations.



Horizontal Suction on BFL
Angled Surface

Vertical Suction on BFL
Angled Surface

Model Number List and Mass

CODE	Model Number	Mass
518000164	SGP-BFL-A	2.7kg
518000165	SGP-BFL-B	2.7kg

Caution) Use the buffer flange for handling workpieces weighing up to 30 kg.

If there is a possibility that a load exceeding 30 kgf may be applied, or if the buffer flange is used on a robot with a payload capacity greater than 30 kg, take appropriate measures to prevent loads from being applied beyond the stroke end or angular limits.

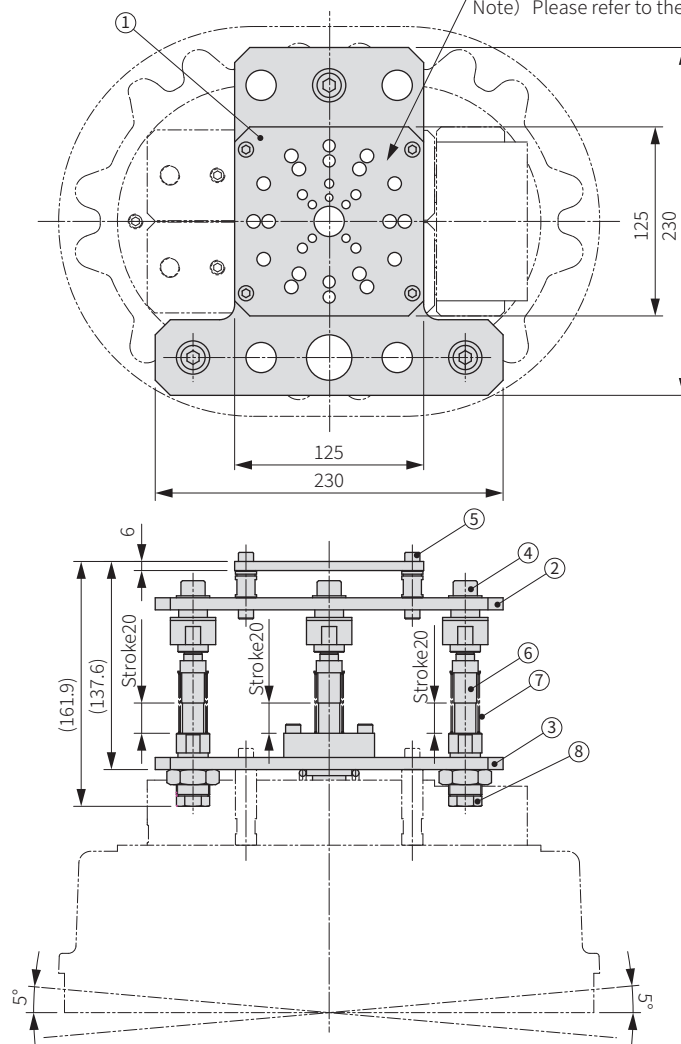
Failure to do so may cause the buffer flange to fail due to excessive loading.

Note) The illustration shows the SGP-H series.

SGP-BFL-□

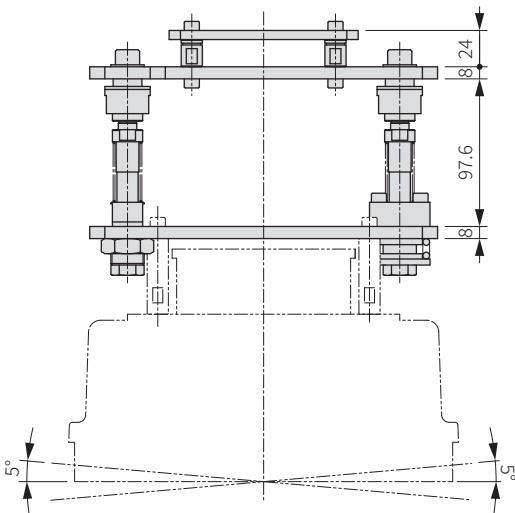
Flange Plate

Note) Please refer to the detailed dimensions of the flange plate shown on the following page.



Material Table

No.	Part Name	Material
①	Flange Plate	Aluminum Alloy
②	Top Plate	Aluminum Alloy
③	Plate	Aluminum Alloy
④	M10 Bolt	Stainless Steel
⑤	M6 Bolt	Stainless Steel
⑥	Shaft	Stainless Steel
⑦	Spring	Stainless Steel
⑧	Stopper	Brass / Nickel Plating



Optional Parts

Wide Sponge (with Sponge Ring)

SPH250X350CRT30W



The increased sponge thickness helps reduce vacuum leakage. This is effective for applications such as shrink-wrapped packages and highly filled paper bags, **where bag deformation is minimal and vacuum leakage is likely to occur due to the shape of the contents.**

Model Number List and Mass

CODE	Model Number	Mass
518000188	SPH250X350CRT30W	460g

High-Hardness Sponge (with Sponge Ring)

SPH250X350CRT301



The higher sponge hardness improves strength and wear resistance, resulting in enhanced durability. However, reduced sponge deformation may decrease compliance (suction performance). Be sure to conduct an actual suction test before selecting this option.

Model Number List and Mass

CODE	Model Number	Mass
518000198	SPH250X350CRT301	430g

① Sponge Material and Thickness

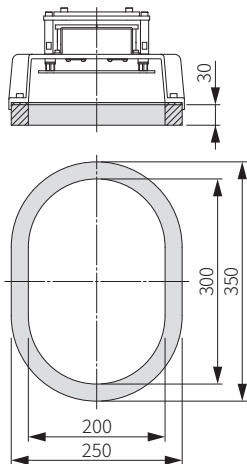
	Material	Hardness	Color	Operating Temperature Range ^{Note 1)}	Thickness
CRT301	Chloroprene Sponge Rubber	ASKER C 15	Black	-55~150°C	30mm

Note 1) The heat resistance temperature shown is for the rubber material only. Performance may vary near the upper and lower temperature limits. Be sure to conduct testing under actual operating conditions before use. The operating ambient temperature range for the kraft paper bag handling gripper is 0 to 50°C.

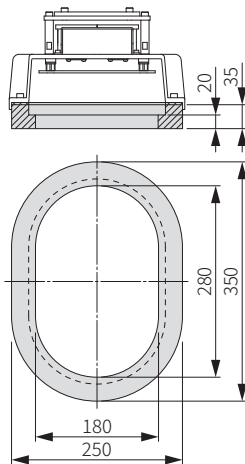
SPHL250X350CRT30
SPH250X350CRT301

SPH250X350CRT30W

Standard / High-Hardness Sponge



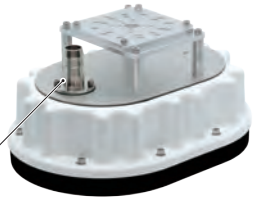
Wide Sponge



Vacuum Source Connection Port (for External Vacuum Source Model)

SGP-G01P

①



Vacuum Source Connection Port^{Note 2)}

SGP-H3□-250X350-CRT30-G02

Note 2) The **SGP-G02P** is supplied pre-installed on the **SGP-H3□-250X350-CRT30-G02**.

This option is useful when changing to a threaded connection or when connecting a larger hose to reduce the loss of suction flow rate.

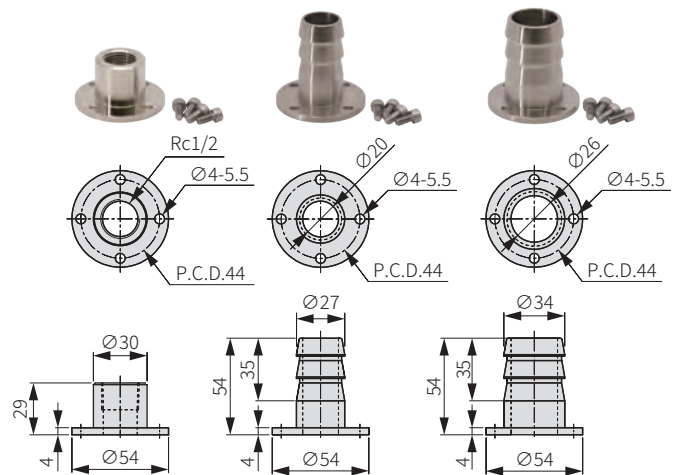
① Size

G01P	Female Thread Rc1/2
G02P	Barbed Fitting (O.D. 27 mm, Recommended Hose I.D. 25 mm)
G03P	Barbed Fitting (O.D. 34 mm, Recommended Hose I.D. 32 mm)

SGP-G01P

SGP-G02P

SGP-G03P

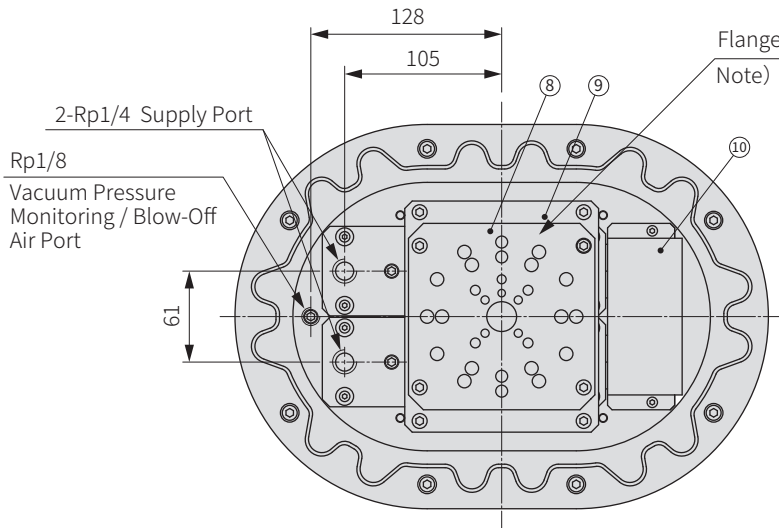
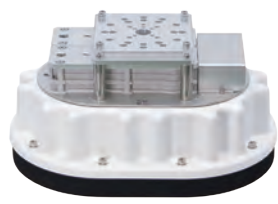


Model Number List and Mass

CODE	Model Number	Mass
518000119	SGP-G01P	150g
518000120	SGP-G02P	141g
518000121	SGP-G03P	176g

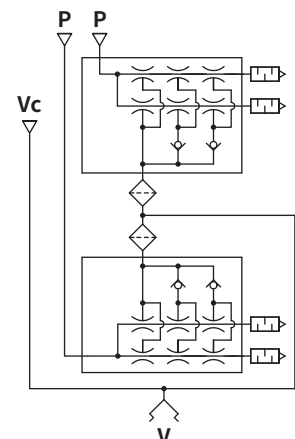
Dimensional Drawing

SGP-H3 □ -250X350-CRT30

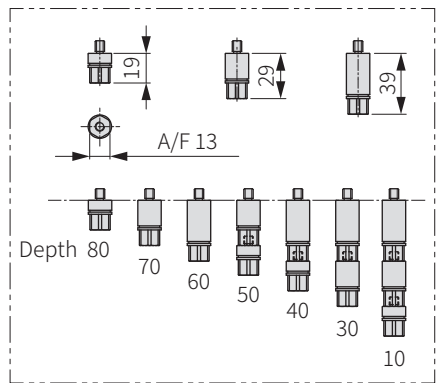
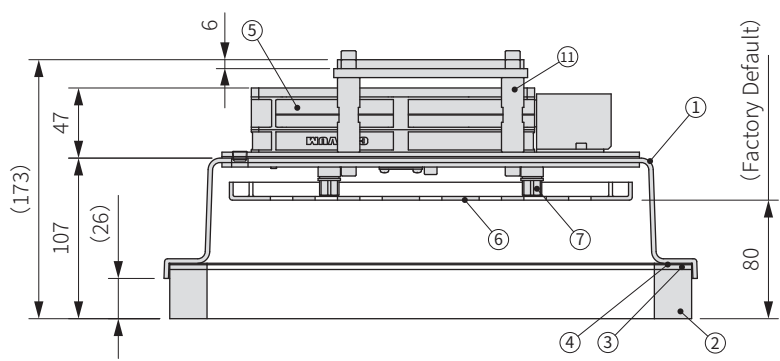


Flange Plate

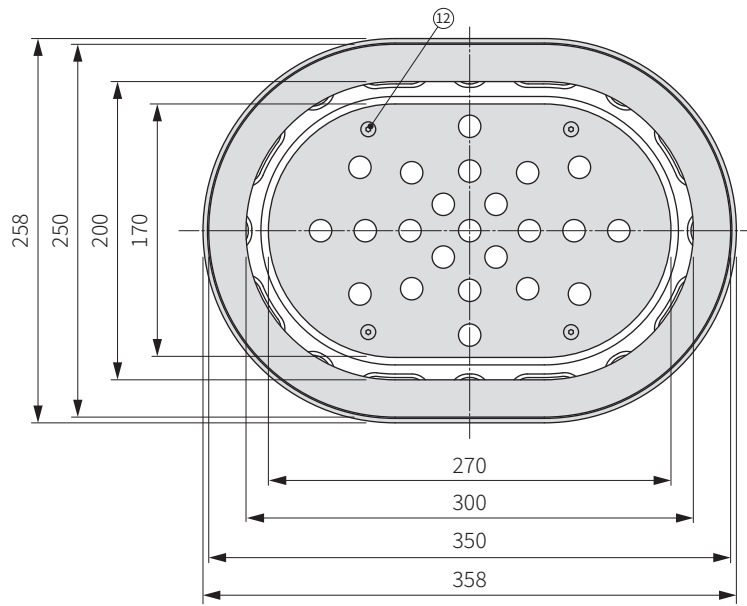
Note) Please refer to the detailed dimensions of the flange plate shown on the following page.



Pneumatic Circuit Diagram



Combination with Supplied Stopper Post



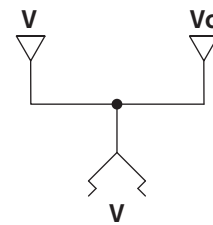
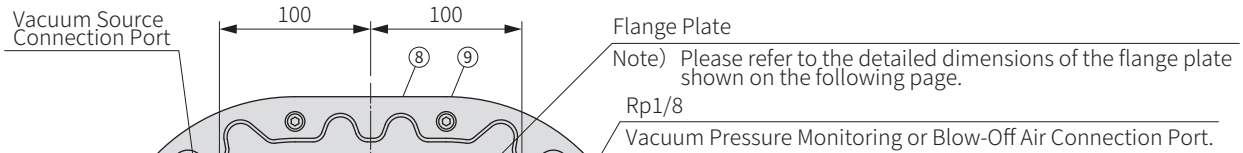
Material Table

No.	Part Name	Material
①	Body	Acrylic-Modified Polyvinyl Chloride
②	Sponge	Chloroprene Sponge Rubber
③	Sponge Ring	Aluminum Alloy
④	Gasket	Chloroprene Rubber
⑤	Ejector	Aluminum Alloy/PA/NBR/HNBR
⑥	Stopper	Aluminum Alloy
⑦	Stopper Post	Aluminum Alloy
⑧	Flange Plate	Aluminum Alloy
⑨	Base Plate	Aluminum Alloy
⑩	Cover	Aluminum Alloy
⑪	Shaft	Aluminum Alloy
⑫	Low-Head Bolt	Stainless Steel

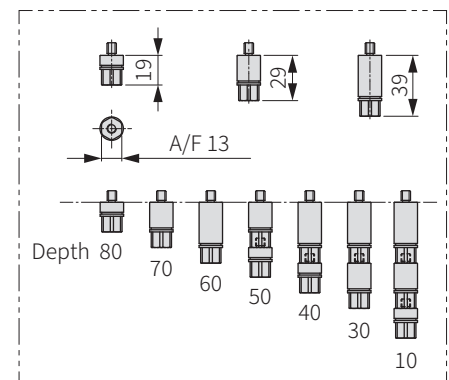
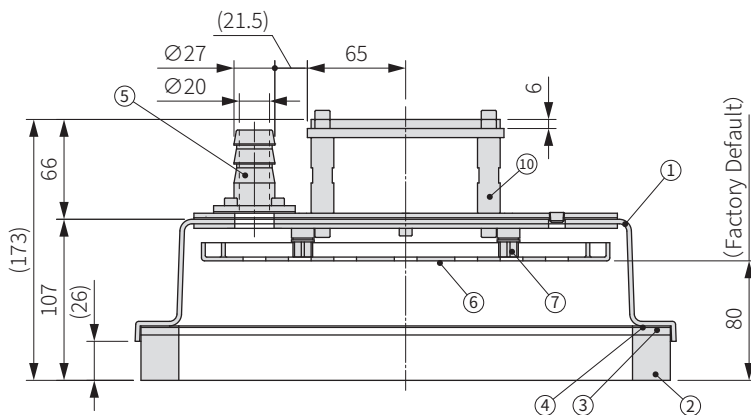
SGP-H3

SGP-H2

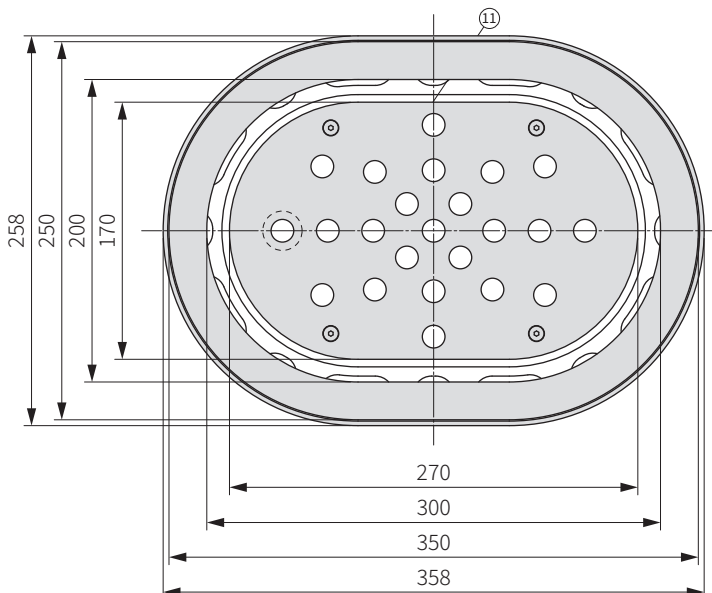
SGP-H3□-250X350-CRT30-G02



Pneumatic Circuit Diagram



Combination with Supplied Stopper Post

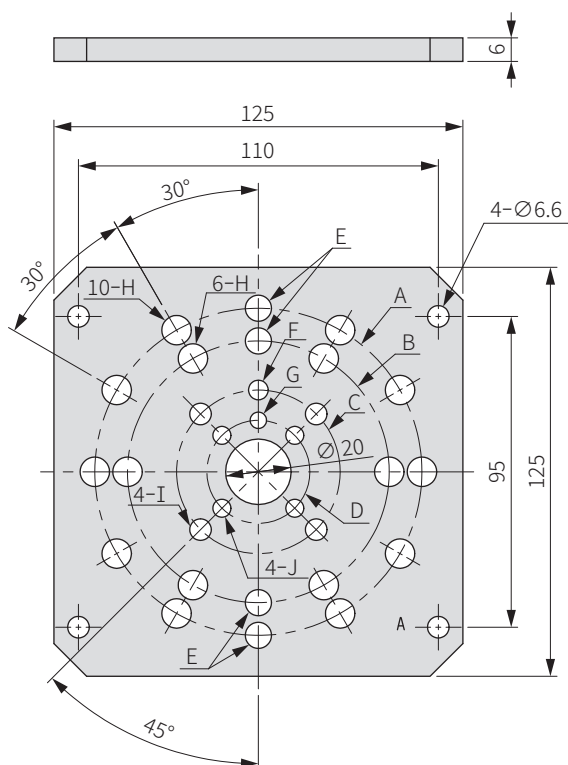


Material Table

No.	Part Name	Material
①	Body	Acrylic-Modified Polyvinyl Chloride
②	Sponge	Chloroprene Sponge Rubber
③	Sponge Ring	Aluminum Alloy
④	Gasket	Chloroprene Rubber
⑤	External Vacuum Source Port	Steel / Nickel Plating
⑥	Stopper	Aluminum Alloy
⑦	Stopper Post	Aluminum Alloy
⑧	Flange Plate	Aluminum Alloy
⑨	Base Plate	Aluminum Alloy
⑩	Shaft	Aluminum Alloy
⑪	Low-Head Bolt	Stainless Steel

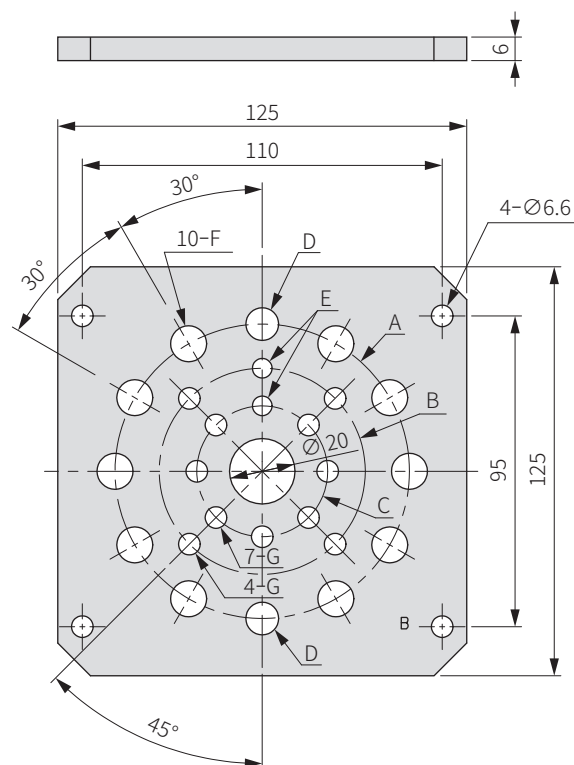
Detailed Dimensions of the Flange Plate

In the case of SGP-H3A



Symbol	P.C.D.	Symbol	Hole Dimensions
A	P.C.D.100	E	$\phi 8^{+0.014}_{+0.005}$
B	P.C.D.80	F	$\phi 6^{+0.012}_{+0.004}$
C	P.C.D.50	G	$\phi 5^{+0.012}_{+0.004}$
D	P.C.D.31.5	H	$\phi 9$ Drill
		I	$\phi 6.5$ Drill
		J	$\phi 5.5$ Drill

In the case of SGP-H3A



Symbol	P.C.D.	Symbol	Hole Dimensions
A	P.C.D.90	D	$\phi 10^{+0.014}_{+0.005}$
B	P.C.D.63	E	$\phi 6^{+0.012}_{+0.004}$
C	P.C.D.40	F	$\phi 11$ Drill
		G	$\phi 6.6$ Drill

Please refer to the robot compatibility table on the following page for information on flange plates and compatible robot models from other manufacturers.

Robot Compatibility Table

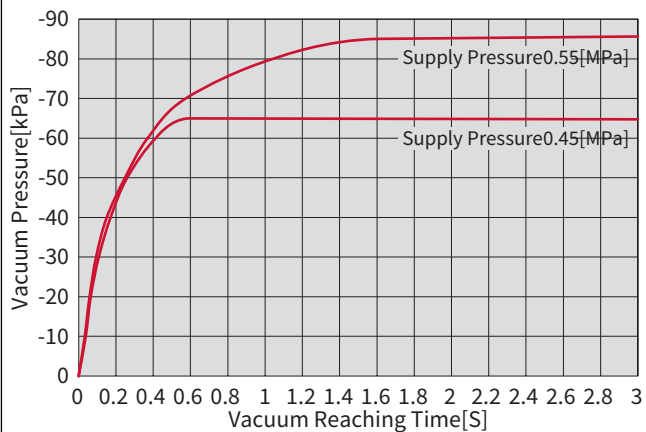
Model Number	Manufacturer	Robot	Payload Capacity (kg)	Flange P.C.D	Mounting Screw	Positioning Pin Hole				
SGP-H3A-250X350-CRT30 SGP-H3A-250X350-CRT30-G02	Kawasaki Heavy Industries, Ltd.	RS030N	30	P.C.D.80	6-M8	2-Ø8				
		RS050N	50							
		RS080N	80							
		RD080N	80							
	FANUC Corporation	CRX-10iA/10iAL	10	P.C.D.50	7-M6 Number of Mounting Bolts: 4-M6					
		CRX-20iA/20iAL	20							
		CRX-25iA	25							
		M-710iC/50T	50							
		M-710iC/50S	50	P.C.D.100	10-M8	Ø8				
		M-710iC/50H	50							
		M-710iC/50E	50							
		M-710iC/70T	70							
		R-1000iA/80F	80							
		R-1000iA/80H	80							
		R-1000iA/100F	100							
		DENSO CORPORATION	COBOTTA PRO900	6	P.C.D.50	7-M6 Number of Mounting Bolts: 4-M6				
	COBOTTA PRO1300		12	P.C.D.100						
	VLA-4025		40	P.C.D.100	10-M8	Ø8				
	VLA-6022		60							
	Mitsubishi Electric Corporation	RV-35F	35	P.C.D.80	6-M8	2-Ø8				
		RV-50F	50							
		RV-70F	70							
	YASKAWA Electric Corporation	MOTOMAN-HC20***	20	P.C.D.50	4-M6	-				
		MOTOMAN-HC30***	30							
		MOTOMAN-GP35L	35	P.C.D.80	6-M8	2-Ø8				
		MOTOMAN-GP50	50							
		MOTOMAN-GP88	88							
		MOTOMAN-MH50II-35	35							
		MOTOMAN-MH50II	50							
	MOTOMAN-MH80II	80								
	Shibaura Machine Co., Ltd.	TVM1500	10	P.C.D.50	4-M6	-				
		TVM1200	15							
		TVM900	20							
	Universal Robots A/S	UR10	10				UR16	16	UR20	20
		UR16	16							
		UR20	20							
	OMRON Corporation	TM12	12				TM14	14		
		TM14	14							
Model Number	Manufacturer	Robot	Payload Capacity (kg)	Flange P.C.D	Mounting Screw	Positioning Pin Hole				
SGP-H3B-250X350-CRT30 SGP-H3B-250X350-CRT30-G02	Kawasaki Heavy Industries, Ltd.	RS010N	10	P.C.D.40	4-M6	Ø6				
		RS010L	10	P.C.D.63						
		RS015X	15							
		RS020N	20							
	DENSO CORPORATION	VM-6083	13	P.C.D.40	4-M6	Ø6				
		VM-60B1	13							
		VMB-2515	25							
		VMB-2518	25							
	FANUC Corporation	M-10iA/10M	10	P.C.D.40	4-M6	Ø6				
		M-10iA/10MS	10		7-M6					
		M-20iA/20M	20							
		M-20iA/35M	35							
		M-20iA/20MT	20							
		M-20iA/35MT	35							
		M-20iB/25	25							
		M-20iB/25C	25							
		M-20iB/35S	35							
		CR-35iB	35							
		M-710iC/45M	45	P.C.D.90	10-M10	Ø10				
		M-710iC/50	50							
		M-710iC/70	70							
	Shibaura Machine Co., Ltd.	TV1000H	10	P.C.D.40	4-M6	Ø6				
	Mitsubishi Electric Corporation	RV-13FR(M)(C)	13							
		RV-13FRL(M)(C)	13							
		RV-13F(M)(C)	13							
		RV-13FL(M)(C)	13							
		RV-20FR(M)(C)	20							
		RV-20F(M)(C)	20							
	YASKAWA Electric Corporation	MOTOMAN-HP20F	20							
		MOTOMAN-MH50II-20	20							

SGP-H3

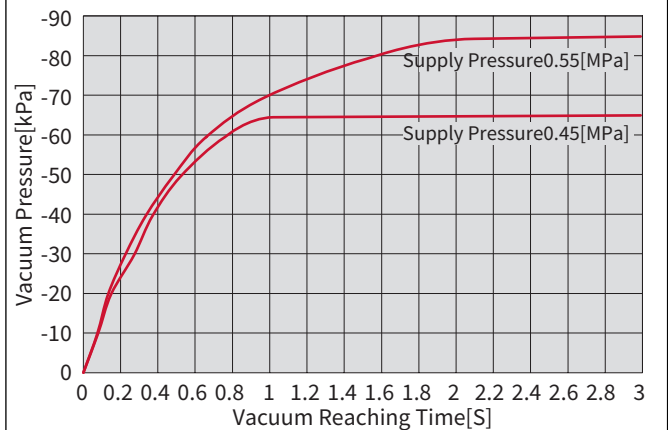
SGP-H2

Response Time (Suction Time)

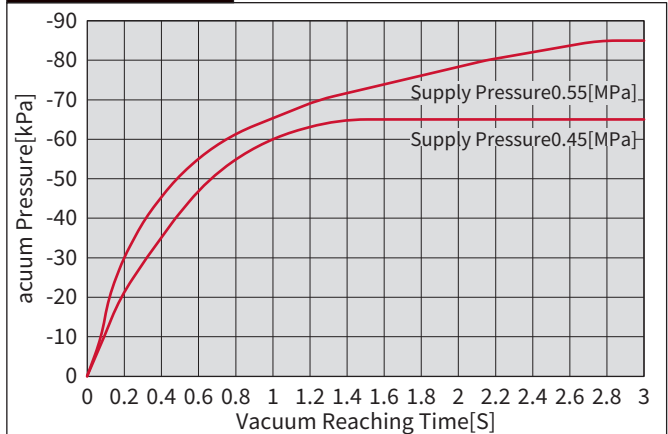
SGP-H2□-150X250



SGP-H2□-250X350

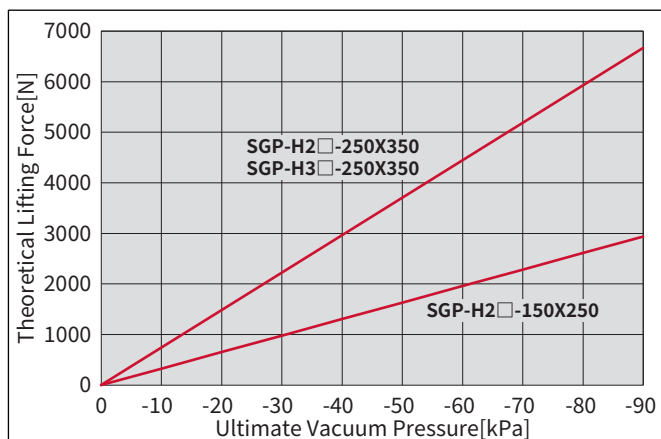


SGP-H3□-250X350



Note) The data shown are actual measured values obtained under our test conditions and are not specifications.
Please use them as reference values when selecting or using the product.
The response time values are based on measurements taken when a flat workpiece is vacuum-held.

Theoretical Lifting Force



Note) The theoretical lifting force is based on the vacuum pressure achieved.
Use these values as a reference to determine the maximum lifting (holding) force that a workpiece can theoretically withstand while being vacuum-held.

Precautions for Kraft Paper Bag Handling Hand (SGP-H2/SGP-H3)



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>

Precautions for Use

⚠ DANGER

- Do not touch or approach the suction port while compressed air is being supplied and the product is in operation. Since this product has a large suction flow rate and suction area, there is a risk of injury due to suction. Always stop the product before performing any work that requires contact with the product.
- This product holds heavy workpieces by means of vacuum suction. If vacuum generation stops due to a failure in the air supply line, an emergency stop, or any other malfunction, the workpiece may fall immediately. Do not enter the area directly beneath the product or within the transfer area while a workpiece is being held. If vacuum generation stops or the vacuum level decreases, the workpiece will be released and may fall. Failure to observe these precautions may result in equipment malfunction or damage, and could lead to serious injury or death.

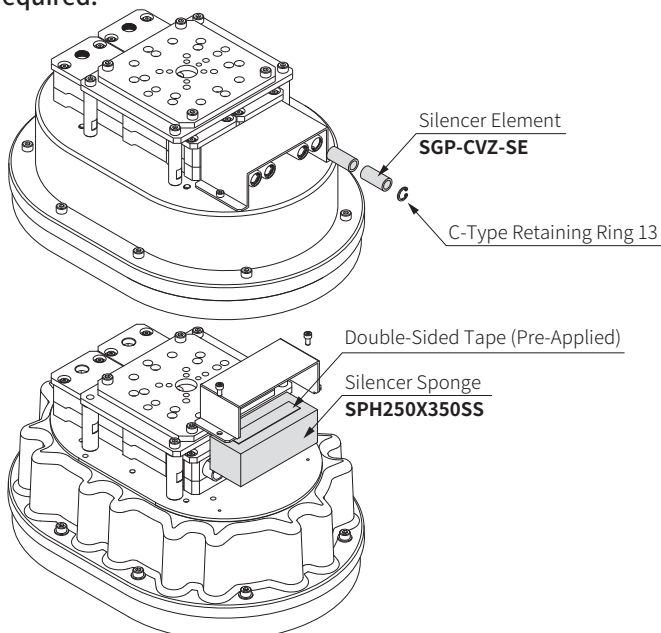
⚠ CAUTION

- Use the product without lubrication. Supplying lubricated air through an air lubricator may cause oil to adhere to the nozzle, resulting in reduced vacuum performance. It may also cause deterioration of the silencer element, leading to a decrease in suction flow rate.

Silencer Element / Sponge

⚠ WARNING

- The adhesion of oil, water, or other contaminants to the silencer element or silencer sponge may increase exhaust resistance (clogging), resulting in reduced vacuum performance and noise reduction effectiveness. Replace the silencer element or silencer sponge as required.

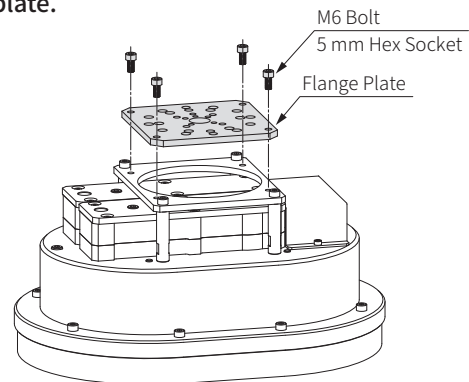


Installation

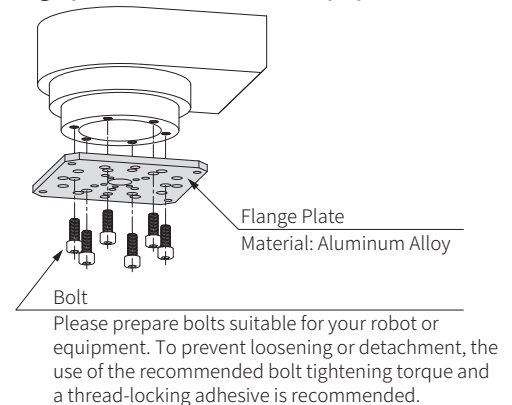
⚠ DANGER

- Before installing or removing the product, be sure to take measures to prevent it from falling. Due to the weight of the product, a falling product may cause personal injury or damage to equipment or the product itself. It is recommended that the work be performed by two or more persons.

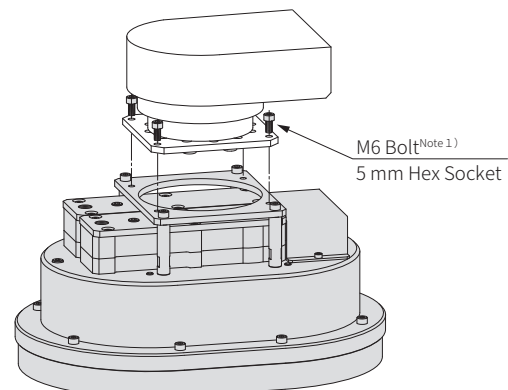
- ① Remove the four M6 bolts on the top and remove the flange plate.



- ② Secure the flange plate to the robot or equipment.



- ③ Secure the main body to the flange plate.



Note 1) Recommended tightening torque: 5.2 N·m
Depending on the operating conditions, use a thread-locking adhesive as necessary.

Precautions for Kraft Paper Bag Handling Hand (SGP-H2/SGP-H3)



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.

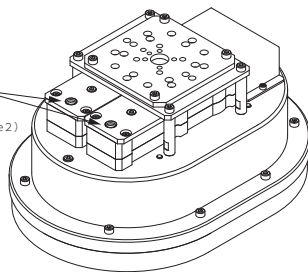
<https://www.convum.co.jp/english/index.html>

Connection (Built-in Ejector Type)

⚠ CAUTION

- This product has a high air consumption rate. Pay careful attention to pressure loss in the air supply line. The specified performance is based on the supply pressure measured at the compressed air supply port. Depending on the piping length and tube inner diameter, pressure loss may prevent the product from achieving its specified vacuum performance. To minimize pressure loss, keep the piping as short as possible and use tubing with the largest practical inner diameter.

Compressed Air Supply Port, Rp1/4
Recommended Tube I.D.: 10 mm or larger (Note 2)
For the SGP-H2□-150X250, only one compressed air supply port is provided.



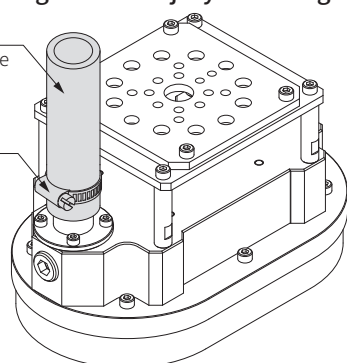
Note 2) Depending on the piping length, the specified vacuum performance may not be achieved. In such cases, use tubing with an inner diameter larger than the recommended tube I.D.

Connection (External Vacuum Source Type)

⚠ CAUTION

- Be sure to secure the hose with a hose clamp. If the hose becomes disconnected during transfer, the workpiece may fall, creating a risk of injury or damage.

Hose
Recommended Hose I.D.: 25 mm
Hose Clamp
Not included. Please prepare it separately.



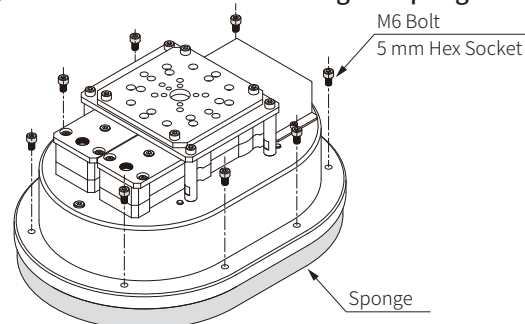
SGP-H2□-150X250-CRT30-G02

Sponge Replacement Procedure (SGP-H2)

⚠ CAUTION

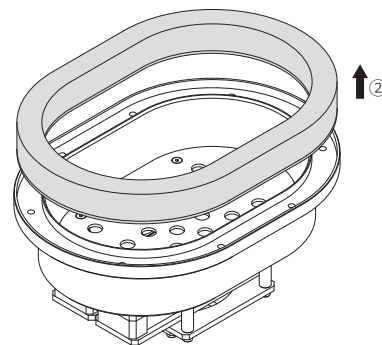
- The sponge may fall during removal. Before performing the replacement, remove the product from the equipment and carry out the work on a table or on the floor, or take other appropriate measures to prevent the sponge from falling.

① Remove the M6 bolts securing the sponge.

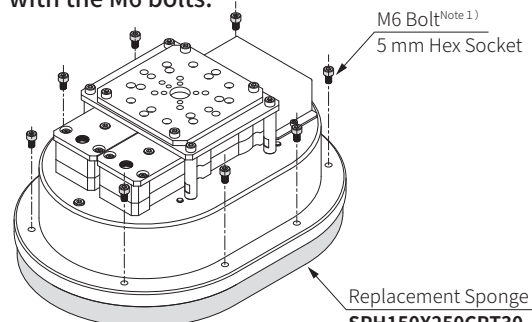


② While holding the sponge in place, turn the product over and remove the sponge.

Note) If the sponge is removed while the product is still installed on the equipment, take appropriate measures to prevent it from falling and remove the sponge with care to avoid dropping it.



③ Insert the new replacement sponge, turn the product over while holding the sponge in place, and secure it with the M6 bolts.



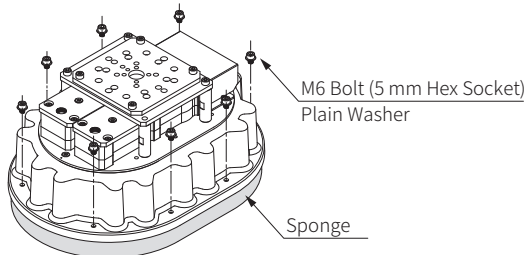
Note 1) Recommended Tightening Torque 5.2 [N · m]
Use a thread-locking adhesive if required by the operating conditions.

Sponge Replacement Procedure (SGP-H3)

⚠ CAUTION

- The sponge may fall during removal. To prevent it from falling, remove the product from the equipment and perform the work on a table or floor, or take other appropriate preventive measures.

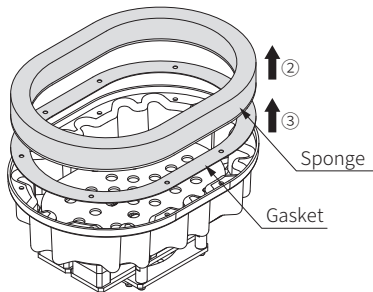
① Remove the M6 bolts securing the sponge.



② While holding the sponge in place, turn the product over and remove the sponge.

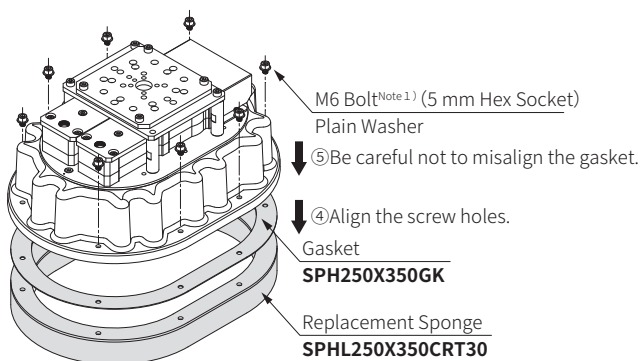
Note) If the sponge is removed while the product is installed on the equipment, take appropriate measures to prevent it from falling and remove the sponge carefully.

③ Remove the gasket.



④ Place the gasket on the replacement sponge and align the screw holes.

⑤ Carefully place the main body over the assembly, ensuring that the parts do not shift, and secure it with the M6 bolts.



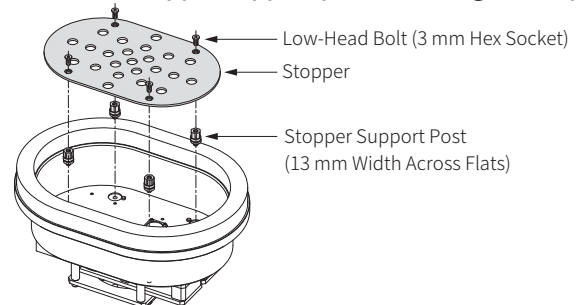
Note 1) Recommended Tightening Torque 5.2 [N · m]
Depending on the operating conditions, apply a thread-locking adhesive as necessary.

Depth Adjustment

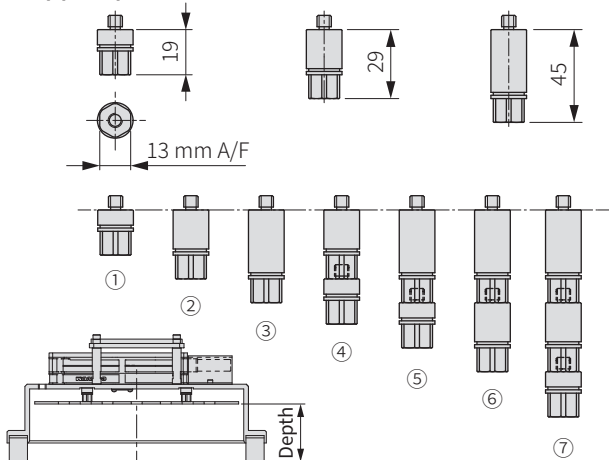
⚠ CAUTION

- The stopper may fall during removal. To prevent it from falling, remove the product from the equipment and perform the work on a table or floor, or take other appropriate preventive measures.

① Turn the product over, then remove the four low-head bolts and stopper support posts securing the stopper.

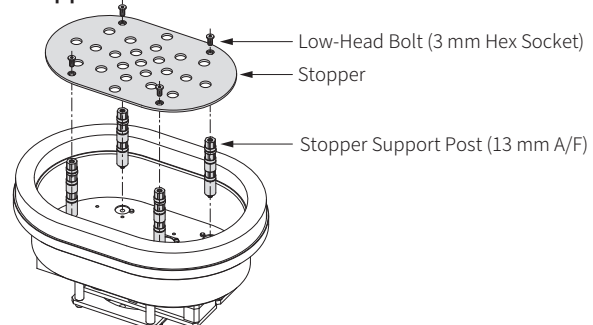


② Adjust the depth by combining the supplied stopper support posts.



	Depth by Combination[mm]						
	①	②	③	④	⑤	⑥	⑦
SGP-H2 □-150X250	60	50	40	30	20	10	-
SGP-H2 □-250X350	80	70	60	50	40	30	10
SGP-H3 □-250X350	80	70	60	50	40	30	10

③ Install the adjusted support posts, then install the stopper.



Note 1) Recommended Tightening Torque 2.6 [N · m]
The use of a thread-locking adhesive is recommended to prevent loosening or detachment.

Precautions for Kraft Paper Bag Handling Hand (SGP-H2/SGP-H3)



Official website

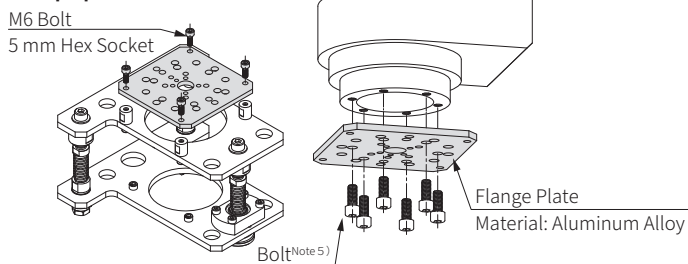
Before use, be sure to read the "For Safe Use" section in this catalog, the "General Precautions" and "Common Precautions for CONVUM Products" in the General Catalog, as well as the Instruction Manual for this product.
<https://www.convum.co.jp/english/index.html>

Installation of Angle Compensation Buffer Flange

⚠ DANGER

- When installing or removing the product, be sure to take measures to prevent it from falling. Due to the weight of the product, a falling product may cause personal injury or damage to other equipment or the product itself. Work by two or more persons is recommended.

① Remove the flange plate and install it on the robot or equipment.

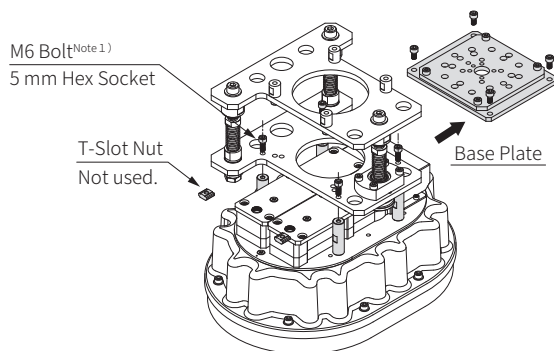


Note 5) Provide bolts suitable for the robot or equipment.
 To prevent loosening or detachment, tighten the bolts to the recommended tightening torque and use a thread-locking adhesive as necessary.

● For SGP-H2□-250X350/SGP-H3

② Remove the base plate and replace it with the buffer flange.

Note) Secure the buffer flange using the M6 × 15 mm bolts and T-slot nuts provided with the buffer flange.

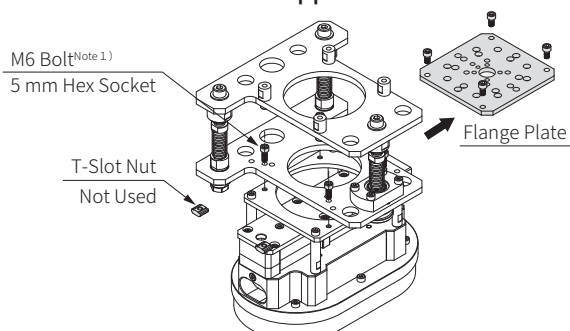


Note 1) Recommended Tightening Torque: 5.2 N · m.
 Use a thread-locking adhesive if required by the operating conditions.

● For SGP-H2□-150X250

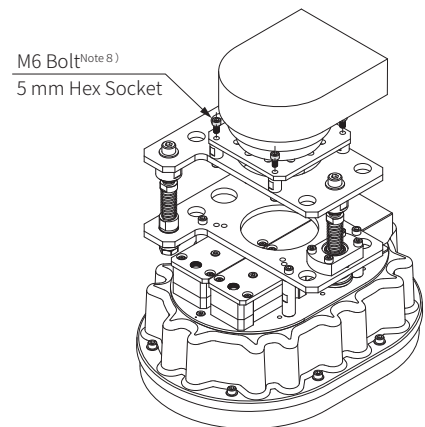
② Remove the flange plate and replace it with the buffer flange.

Note) Secure the buffer flange using the M6 × 15 mm bolts and T-slot nuts supplied with the buffer flange.



Note) Recommended Tightening Torque: 5.2 N · m.
 Use a thread-locking adhesive if required by the operating conditions.

③ Secure the flange plate with the M6 bolts.



Note 1) Provide bolts suitable for the robot or equipment.
 To prevent loosening or detachment, tighten the bolts to the recommended tightening torque and use a thread-locking adhesive as necessary.

Major Design Change

Minor Design Change (Weight Reduction and Improved Exhaust Flow)

Description of Change : The product has been made lighter by changing the material and shape of its components.

In addition, the silencer has been changed to a sponge type to improve exhaust flow.

Date of Change : Effective for orders received on or after March 1, 2026(Lot No. 6301 and later)

Precautions : When replacing the sponge, please purchase **SPHL250X350CRT30** for the lightweight model.

SPHL250X350CRT30 can also be used with **SGP-H3** and **SGP-H2** models manufactured before the minor design change.

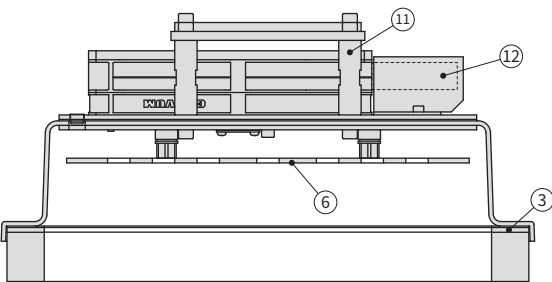


Replacement Sponge
SPHL250X350CRT30

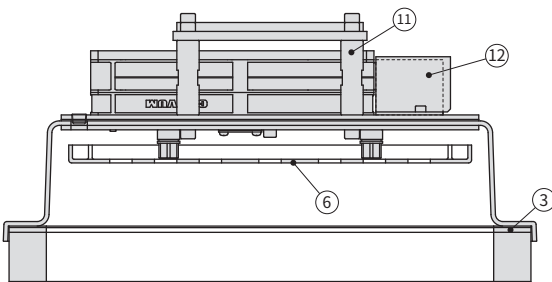
●Product Weight Change (Weight Reduction)

CODE	Model Number	Mass (Before Change)	Mass (After Change)
502700287	SGP-H3A-250X350-CRT30	4.6 kg	3.6 kg
502700288	SGP-H3B-250X350-CRT30	4.6 kg	3.6 kg

●Material and Geometry Change



Before Change



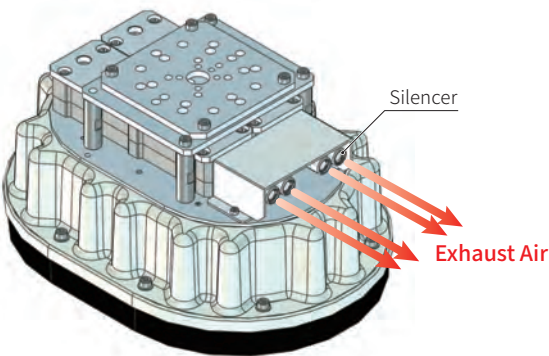
After Change

Material Table

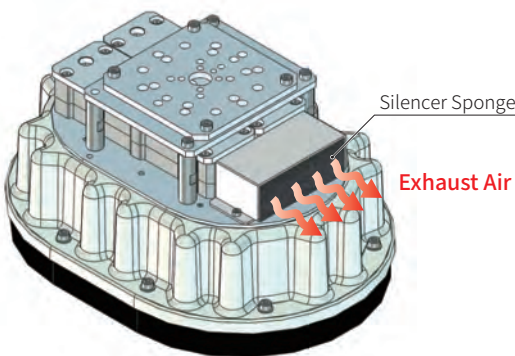
No.	Part Name	Material (Before Change)	Material (After Change)
③	Sponge Ring	Steel, Trivalent Zinc Chromate Plating	Aluminum Alloy
⑥	Stopper	Steel, Trivalent Zinc Chromate Plating	Aluminum Alloy
⑪	Shaft	Stainless Steel	Aluminum Alloy
⑫	Silencer	Aluminum Alloy, PVC	Polyurethane Foam

Note 1) There is no change in the external dimensions.

●Silencer Change (Improved Exhaust Flow)



Silencer Method (Before Change)



Silencer Sponge Type (After Change)

Note 2) The silencer change applies only to the **SGP-H3**.

The **SGP-H2** will continue to use the conventional silencer method.

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.

• 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

① If 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.

② The 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.

③ The 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

① The 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.

② This 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

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



Official website



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

Contact Information

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email

faq@convum.co.jp

2026.6.11