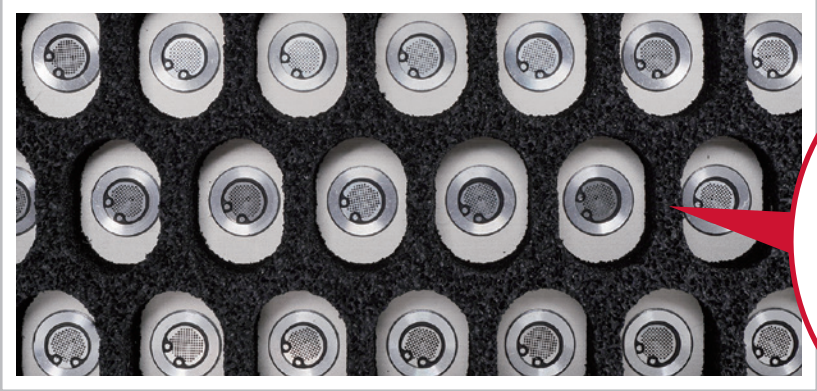


Filter cleaning • Maintenance



Filter

Filter is installed in the sponge pad type as the picture.
The filter condition can be found easily by checking pad surface.
It can be cleaned by air blow as the filter is made of stainless steel.

*Specifications may change without prior notice.
*Please refer to the catalog and instruction manual about How to use, notes.

PALLETCHER

SGP

series

NEW

CONVUM
built-in

Small type

Selectable from
standard cups

Filter
equipped

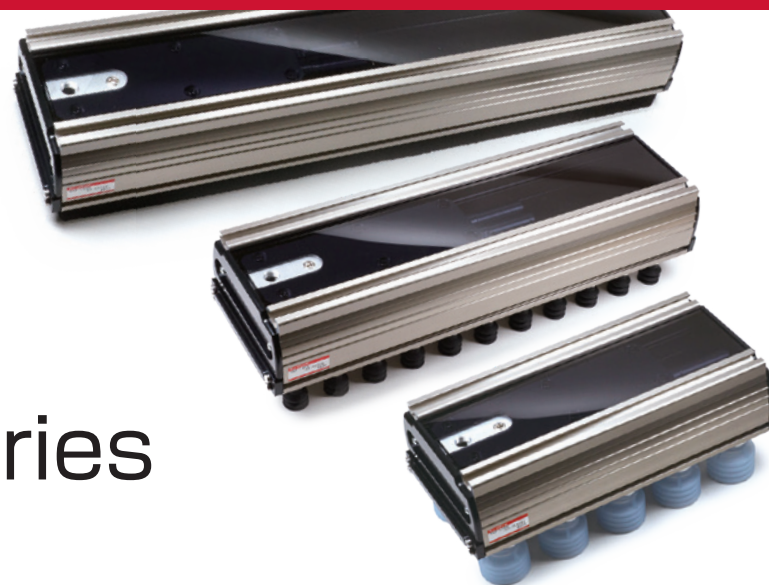


CONVUM
Myotoku Ltd.

2-6-18 Shimomaruko, Ohta-ku, Tokyo 146-0092, Japan
TEL 81-3-3759-1491 FAX 81-3-5741-7020
<https://www.convum.co.jp/en>



NEW PALLETCHER SGP series



New PALLETCHER without vacuum generator and small type are selectable.



☐ Built-in CONVUM type (Large type)



☐ Without vacuum generator type (Large type)



☐ Small type (Built in CONVUM) Without vacuum generator

Select from a wide variety of standard suction cups
Chloroprene (Hard type) and eptsealer (Soft type) material are selectable for sponge type.



☐ Multiple suction cups mounted type
Multiple bellows suction cup, PL series

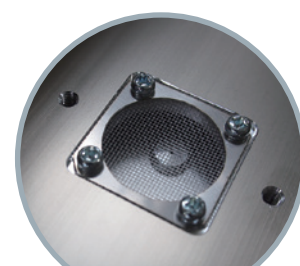


☐ Multiple suction cups mounted type
3 bellows suction cup, PC series

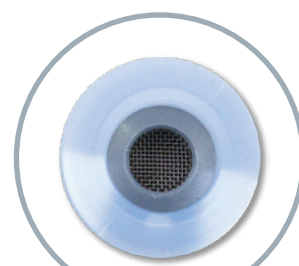


☐ Sponge pad type
Chloroprene (Hard),
eptsealer (Soft) material

Meshes filter is installed to avoid getting foreign objects into CONVUM and suction cups.



Vacuum port filter for CONVUM



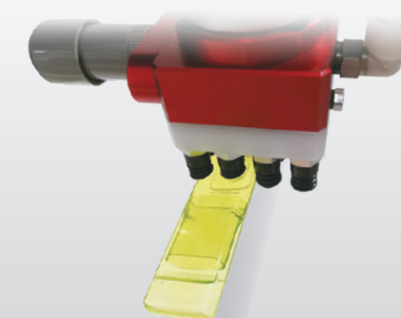
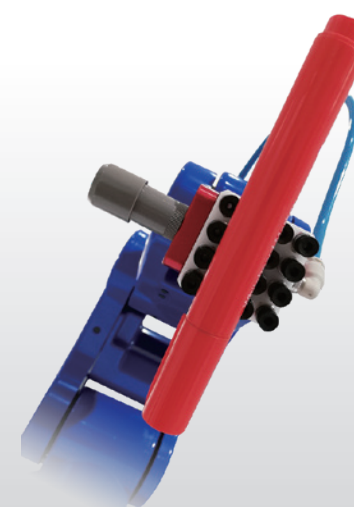
Filter for suction cup

Allows handling a wide range of workpieces by one hand.



By the built-in fixed orifice, it allows handling workpieces even with some vacuum leakage.

- Unlevel workpieces
- Heavy workpieces
- Porous workpieces



CONVUM built-in type

How to order

SGP – ① L280 – ② C3 – ③ PC40S



① Body length(mm)

Symbol	Length	Built-in CONVUM nozzle number
L280	280	1
L416	416	2
L560	560	2

② Suction cup line number • Applicable suction cup list

Symbol	Pitch(mm)	Number of hole	Cup specifications	Body total length(mm)
C3	54	14	φ40、 Equivalent to φ34 cup Sponge type	280
		21		416
		29		560
	18	38	Sponge type	280
		60		416
		83		560
C5	36	32	φ20 cup Sponge type	280
		52		416
		72		560
	18	63	Sponge type	280
		103		416
		143		560

③ Suction cup specifications

Symbol	Suction cup type	Specifications	Line of suction cup
PB20N	2 bellows suction cup	φ20、Nitrile rubber 55°	C5
PB20S		φ20、Silicone rubber55°	
PB40N		φ40、Nitrile rubber 55°	C3
PB40S		φ40、Silicone rubber55°	
PC20N	3 bellows suction cup	φ20、Nitrile rubber 55°	C5
PC20S		φ20、Silicone rubber55°	
PC40N		φ40、Nitrile rubber 55°	C3
PC40S		φ40、Silicone rubber55°	
PL20S4	Multiple bellows suction cup	φ20、Silicone rubber40°	C5
PL20S5		φ20、Silicone rubber55°	
PL40S4		φ40、Silicone rubber40°	C3
PL40S5		φ40、Silicone rubber55°	
PM40S4	Star shaped multiple bellows suction cups	Equivalent to φ34、Silicone rubber40°	C3
PM40S5		Equivalent to φ34、Silicone rubber55°	
CRT20	Sponge	Chloroprene8° t 20	C5, C3
EPT20		Eptsealer1° t 20 Pitch18	
CRT10P18		Chloroprene8° t 10 Pitch18	
EPT20P18		Eptsealer1° t 20 Pitch18	
Z	Without suction cup	-	C5, C3

Note

- Adsorption test with actual workpieces is recommended for selecting.
- Please use O.D 10mm, I.D 9mm air hose when supplying compressed air.

Specifications

	Unit	SGP-L280	SGP-L416	SGP-L560
Fluid		Oil-free compressed air		
Operating ambient temperature	℃	0~50(Without frozen)		
Operating pressure range	MPa	0.15~0.6		

Built-in CONVUM performance

	Unit	SGP-L280		SGP-L416		SGP-L560	
Nozzle number	Pcs	1		2		2	
Supplied air pressure	MPa	0.45	0.55	0.45	0.55	0.45	0.55
Max. vacuum pressure	kPa	-70	-90	-70	-90	-70	-90
Suction flow rate Note1	L/min(ANR)	323	356	557	604	557	604
Air consumption amount Note1	L/min(ANR)	104	126	201	239	201	239
Exhausted air sound volume	Vacuum port open dB(A)	71	71	65	68	67	68
	Vacuum port close dB(A)	64	55	61	54	62	54

Note 1) CONVUM performance only

Applicable model list•Mass table

Suction cup specification	Model	Mass (kg)	Suction cup specification	Model	Mass (kg)
2 bellows suction cup	SGP-L280-C3-PB40□	2.4	Multiple bellows suction cup	SGP-L280-C3-PL40S□	2.5
	SGP-L280-C5-PB20□			SGP-L280-C5-PL20S□	2.3
	SGP-L416-C3-PB40□	3.3		SGP-L416-C3-PL40S□	3.5
	SGP-L416-C5-PB20□	3.4		SGP-L416-C5-PL20S□	3.1
	SGP-L560-C3-PB40□	4.3		SGP-L560-C3-PL40S□	4.5
	SGP-L560-C5-PB20□	4.4		SGP-L560-C5-PL20S□	4.0
3 bellows suction cup	SGP-L280-C3-PC40□	2.5	Sponge pad	SGP-L280-C3-CRT/EPT20	2.1
	SGP-L280-C5-PC20□	2.4		SGP-L280-C5-CRT/EPT20	
	SGP-L416-C3-PC40□	3.5		SGP-L416-C3-CRT/EPT20	2.8
	SGP-L416-C5-PC20□	3.4		SGP-L416-C5-CRT/EPT20	2.9
	SGP-L560-C3-PC40□	4.5		SGP-L560-C3-CRT/EPT20	3.6
	SGP-L560-C5-PC20□	4.4		SGP-L560-C5-CRT/EPT20	3.7
Star shaped multiple bellows suction cups	SGP-L416-C3-PM40S□	3.1	Note) □ indicates suction cup material		
	SGP-L560-C3-PM40S□	4.0			
Without suction cup	SGP-L280-C3-Z	2.0			
	SGP-L280-C5-Z				
	SGP-L416-C3-Z	2.8			
	SGP-L416-C5-Z				
	SGP-L540-C3-Z	3.6			
	SGP-L540-C5-Z				

Without vacuum generator type

How to order

SGP – ① L280 – ② C3 – ③ PC40S – ④ G01



① Body length(mm)

Symbol	Length
L280	280
L416	416
L560	560

② Suction cup line number • Applicable suction cup list

Symbol	Pitch (mm)	Number of hole	Cup specifications	Body total length(mm)
C3	54	14	φ40、	280
		21	Equivalent to φ34 cup	416
		29	Sponge type	560
	18	38	Sponge type	280
		60		416
		83		560
C5	36	32	φ20 cup Sponge type	280
		52		416
		72		560
	18	63	Sponge type	280
		103		416
		143		560

③ Suction cup specifications

Symbol	Suction cup type	Specifications	Line of suction cup
PB20N	2 bellows suction cup	φ20、Nitrile rubber 55°	C5
PB20S		φ20、Silicone rubber55°	
PB40N		φ40、Nitrile rubber 55°	C3
PB40S		φ40、Silicone rubber55°	
PC20N	3 bellows suction cup	φ20、Nitrile rubber 55°	C5
PC20S		φ20、Silicone rubber55°	
PC40N		φ40、Nitrile rubber 55°	C3
PC40S		φ40、Silicone rubber55°	
PL20S4	Multiple bellows suction cup	φ20、Silicone rubber40°	C5
PL20S5		φ20、Silicone rubber55°	
PL40S4		φ40、Silicone rubber40°	C3
PL40S5		φ40、Silicone rubber55°	
PM40S4	Star shaped multiple bellows suction cups	Equivalent to φ34、Silicone rubber40°	C3
PM40S5		Equivalent to φ34、Silicone rubber55°	
CRT20	Sponge	Chloroprene8° t 20	C5, C3
EPT20		Eptsealer1° t 20 Pitch18	
CRT10P18		Chloroprene8° t 10 Pitch18	
EPT20P18		Eptsealer1° t 20 Pitch18	
Z		-	
Z	Without suction cup	-	C5, C3

④ Vacuum port specifications

Symbol	Applicable hose and screw size	Remark	Applicable body length (mm)
G01	Rc1/2(Fitting size)	Screw type	L280
G02	φ25 (Hose inner diameter)	Hose type	L416
G03	φ32 (Hose inner diameter)		L560

Please prepare less than φ12mm hose clamp when fixing φ25,32 hose.

Recommended vacuum generator specifications

	Unit	SGP-L280-G01	SGP-L416-G02	SGP-L560-G03
Operating ambient temperature	℃	0~50(Without frozen)		
Vacuum pressure	kPa	Depends on applied vacuum generator		
Recommended suctionflow rate Note1	L/min(ANR)	150	300	450

Note) For the applied vacuum generator specifications

Applicable model list•Mass table

Suction cup specification	Model	Mass (kg)	Suction cup specification	Model	Mass (kg)
2 bellows suction cup	SGP-L280-C3-PB40□-G01	2.4	Sponge pad	SGP-L280-C3-CRT/EPT20-G01	2.1
	SGP-L280-C5-PB20□-G01			SGP-L280-C5-CRT/EPT20-G01	
	SGP-L416-C3-PB40□-G02	3.3		SGP-L416-C3-CRT/EPT20-G02	2.8
	SGP-L416-C5-PB20□-G02	3.4		SGP-L416-C5-CRT/EPT20-G02	2.9
	SGP-L560-C3-PB40□-G03	4.3		SGP-L560-C3-CRT/EPT20-G03	3.6
	SGP-L560-C5-PB20□-G03	4.4		SGP-L560-C5-CRT/EPT20-G03	3.7
3 bellows suction cup	SGP-L280-C3-PC40□-G01	2.5		SGP-L280-C3-CRT/EPT*OP18-G01	2.2
	SGP-L280-C5-PC20□-G01	2.4		SGP-L280-C5-CRT/EPT*OP18-G01	
	SGP-L416-C3-PC40□-G02	3.5		SGP-L416-C3-CRT/EPT*OP18-G02	2.9
	SGP-L416-C5-PC20□-G02	3.4		SGP-L416-C5-CRT/EPT*OP18-G02	
	SGP-L560-C3-PC40□-G03	4.5		SGP-L560-C3-CRT/EPT*OP18-G03	3.7
	SGP-L560-C5-PC20□-G03	4.4		SGP-L560-C5-CRT/EPT*OP18-G03	
Multiple bellows suction cup	SGP-L280-C3-PL40S□-G01	2.4	Without suction cup	SGP-L280-C3-Z-G01	2.0
	SGP-L280-C5-PL20S□-G01			SGP-L280-C5-Z-G01	
	SGP-L416-C3-PL40S□-G02	3.3		SGP-L416-C3-Z-G02	2.8
	SGP-L416-C5-PL20S□-G02	3.4		SGP-L416-C5-Z-G02	
	SGP-L560-C3-PL40S□-G03	4.3		SGP-L540-C3-Z-G03	3.6
	SGP-L560-C5-PL20S□-G03	4.4		SGP-L540-C5-Z-G03	
Star shaped multiple bellows suction cups	SGP-L280-C3-PM40S□-G01	2.3	Note) □ indicates suction cup material		
	SGP-L416-C3-PM40S□-G02	3.1			
	SGP-L560-C3-PM40S□-G03	4.0			

Maintenance part•Accessories

Pressure sensor

MPS-V35R-NCA			
Pressure range	Display	Switch output	Analog output
-101.3~10kPa	Digital	NPN or PNP open collector 2 outputs	DC12~24V



Replaced suction cup, set screw

2 bellows suction cup model

PBG - 20 - N

① Cup diameter(mm)		② Cup rubber material	
Mark	Cup diameter	Mark	Material
20	φ20	N	NBR(Nitrile rubber)
40	φ40	S	Silicone rubber



Fitting set to mount suction cup

SGP-PB20K, SGP-PB40K

Suction cup

PBG-20-□, PBG-40-□

Set screw

TN-PF-20-M5, TN-PF-25-M6

Set screw model

Set screw model	Applicable suction cup model
TN-PF-20-M5	PBG-20-□
TN-PF-25-M6	PBG-40-□

Note) □ indicates suction cup material.

Plug(Filler plug)

To close the disused hole of suction cup.

CRK-PG1

Note) It can be used when reducing suction cup quantity to use.

3 bellows suction cup model

PCG - 20 - N

① Cup diameter(mm)		② Cup rubber material	
Mark	Cup diameter	Mark	Material
20	φ20	N	NBR(Nitrile rubber)
40	φ40	S	Silicone rubber



Fitting set to mount suction cup

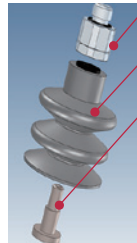
SGP-PC20K

Set screw

TN-PC-10-M5

Suction cup

PCG-20-□



Fitting set to mount suction cup

SGP-PC40K

Suction cup

PCG-40-□

Set screw

TN-PC-30-M6

Set screw model

Set screw model	Applicable suction cup model
TN-PC-10-M5	PCG-20-□
TN-PC-30-M6	PCG-40-□

Note) □ indicates suction cup material.

Multiple bellows suction cup model

PLG - 20 - S4

① Cup diameter(mm)		② Cup rubber material	
Mark	Cup diameter	Mark	Material
20	φ20	S4	Silicone rubber 40°
40	φ40	S5	Silicone rubber 55°



Fitting set to mount suction cup

SGP-PL20K, SGP-PL40K

Suction cup

PLG-20-□, PLG-40-□

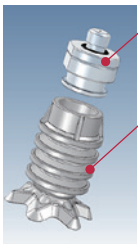
Model for replaced sponge pad

PALLETCHER model	Sponge pad model
SGP-L280-C3-EPT20(-G01)	SP-L280C3EP20
SGP-L280-C3-CRT20(-G01)	SP-L280C3CR20
SGP-L280-C5-EPT20(-G01)	SP-L280C5EP20
SGP-L280-C5-CRT20(-G01)	SP-L280C5CR20
SGP-L416-C3-EPT20(-G02)	SP-L416C3EP20
SGP-L416-C3-CRT20(-G02)	SP-L416C3CR20
SGP-L416-C5-EPT20(-G02)	SP-L416C5EP20
SGP-L416-C5-CRT20(-G02)	SP-L416C5CR20
SGP-L560-C3-EPT20(-G03)	SP-L560C3EP20
SGP-L560-C3-CRT20(-G03)	SP-L560C3CR20
SGP-L560-C5-EPT20(-G03)	SP-L560C5EP20
SGP-L560-C5-CRT20(-G03)	SP-L560C5CR20
SGP-L280-C3-EPT20P18(-G01)	SP-L280C3EP20P18
SGP-L280-C3-CRT10P18(-G01)	SP-L280C3CR10P18
SGP-L280-C5-ERT20P18(-G01)	SP-L280C5EP20P18
SGP-L280-C5-CRT10P18(-G01)	SP-L280C5CR10P18
SGP-L416-C3-EPT20P18(-G02)	SP-L416C3EP20P18
SGP-L416-C3-CRT10P18(-G02)	SP-L416C3CR10P18
SGP-L416-C5-EPT20P18(-G02)	SP-L416C5EP20P18
SGP-L416-C5-CRT10P18(-G02)	SP-L416C5CR10P18
SGP-L560-C3-EPT20P18(-G03)	SP-L560C3EP20P18
SGP-L560-C3-CRT10P18(-G03)	SP-L560C3CR10P18
SGP-L560-C5-EPT20P18(-G03)	SP-L560C5EP20P18
SGP-L560-C5-CRT10P18(-G03)	SP-L560C5CR10P18

Star shaped multiple bellows suction cups

PMG - 40L - S4

① Cup diameter(mm)		② Cup rubber material	
Mark	Cup diameter	Mark	Material
40	Equivalent to φ34	S4	Silicone rubber 40°
		S5	Silicone rubber 55°



Fitting set to mount suction cup

SGP-PL30K

Suction cup

PMG-40L-□

Model for fitting set to mount suction cup (Fitting only)

Fitting set	Suction cup
SGP-PB20K	PBG-20-□
SGP-PC20K	PCG-20-□
SGP-PL20K	PLG-20-□
SGP-PB40K	PBG-40-□
SGP-PC40K	PCG-40-□
SGP-PL40K	PLG-40-□
SGP-PL30K	PMG-40L-□

Note) □ indicates suction cup material

Model for robot flange

SGP-FL-A
SGP-FL-B
SGP-FL-C

Note) The robot flanges are applicable for robots in the below list.

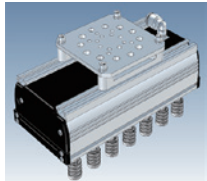


Image of mounted robot flange.

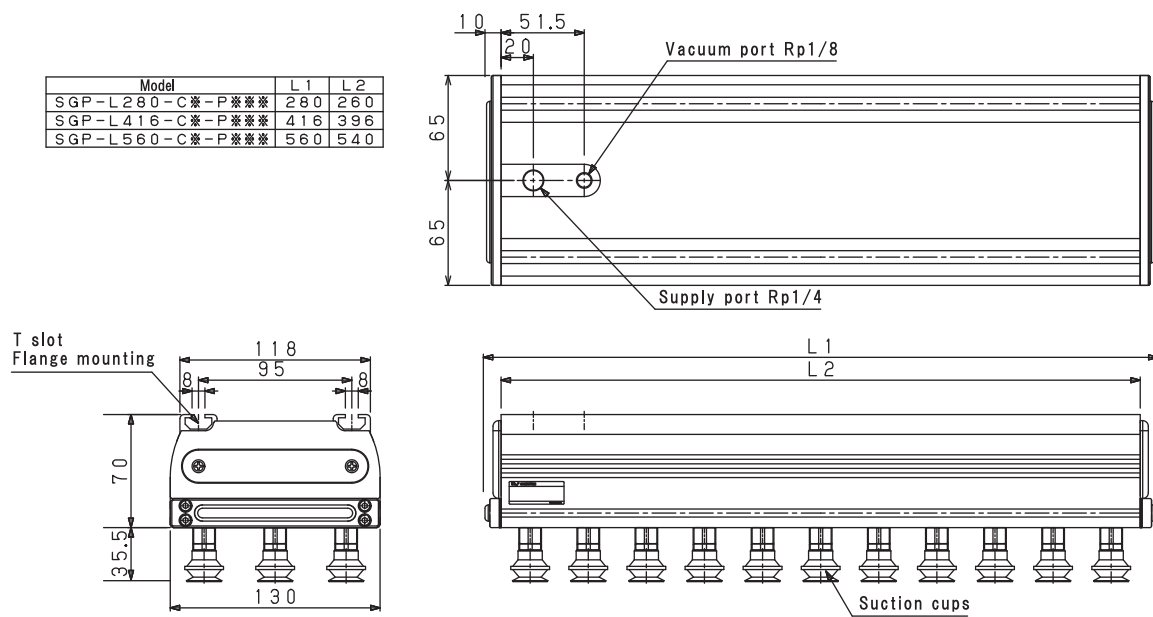
Applicable robot list to the robot flange

Model of robot flange	Brand	Model	Weight capacity	Flange mounting P.C.D	Mounting screw	Positioning pin hole					
SGP-FL-A	Common	-	-	P.C.D.31.5	4-M5	φ5					
	Kawasaki	RS030N	30.0	P.C.D.80	6-M8	2-φ8					
		RS050N	50.0								
		RS080N	80.0								
		RD080N	80.0								
	TOSHIBA	TVM1500	10.0	P.C.D.50	4-M6	φ6					
		TVM1200	15.0								
		TVM900	20.0								
	FANUC	M-710iC/50T	50.0	P.C.D.100	10-M8	φ8					
		M-710iC/50S	50.0								
		M-710iC/50H	50.0								
		M-710iC/50E	50.0								
		M-710iC/70T	70.0								
		R-1000iA/80F	80.0								
		R-1000iA/80H	80.0								
		R-1000iA/100F	100.0								
	MITSUBISHI ELECTRIC	RV-35F	35.0	P.C.D.80	6-M8	2-φ8					
		RV-50F	50.0								
		RV-70F	70.0								
	YASKAWA	MOTOMAN-GP35L	35.0				P.C.D.50	4-M6			
		MOTOMAN-GP50	50.0								
		MOTOMAN-GP88	88.0								
		MOTOMAN-MH50II-35	35.0								
		MOTOMAN-MH50II	50.0								
	UNIVERSAL ROBOTS	MOTOMAN-MH80II	80.0	P.C.D.40	4-M6						
		UR3	3.0								
		UR5	5.0								
	SGP-FL-B	Kawasaki	RS010N	10.0	P.C.D.40	4-M6	φ6				
RS010L			10.0	P.C.D.63							
RS015X			15.0		P.C.D.40						
RS020N			20.0	7-M6							
DENSO		VM-60B3	13.0		P.C.D.90	10-M10		φ10			
		VM-60B1	13.0								
FANUC		M-10iA/10M	10.0						P.C.D.40	10-M10	φ10
		M-10iA/10MS	10.0								
		M-20iA/20M	20.0								
		M-20iA/35M	35.0								
		M-20iA/20MT	20.0								
		M-20iA/35MT	35.0								
		M-20iB/25	25.0								
		M-20iB/25C	25.0								
		M-20iB/35S	35.0								
		M-710iC/45M	45.0								
TOSHIBA		M-710iC/50	50.0	P.C.D.90	10-M10	φ10					
		M-710iC/70	40.0								
		TV1000H	10.0								
		MITSUBISHI ELECTRIC	RV-13FR(M)(C)				13.0	P.C.D.40	4-M6	φ6	
RV-13FRL(M)(C)			13.0								
RV-13F(M)(C)			13.0								
RV-13FL(M)(C)			13.0								
RV-20FR(M)(C)			20.0								
RV-20F(M)(C)			20.0								
YASKAWA		MOTOMAN-HP20F	20.0	P.C.D.40	4-M6	φ6					
		MOTOMAN-MH50II-20	20.0								
SGP-FL-C		FANUC	M-10iA/7L	7.0	P.C.D.56	8-M4	φ4				
	M-10iA/8L		8.0								
	M-10iA/12		12.0								
	M-10iA/12S		12.0								
	M-20iA/12L		12.0								
	YASKAWA	M-20iA/20T	20.0	P.C.D.56		8-M4		φ4			
		MOTOMAN-GP12	12.0								
		MOTOMAN-GP-25-12	12.0								
		MOTOMAN-MH12	12.0								
		MOTOMAN-MH24-10	10.0								

Dimensions Built-in CONVUM type

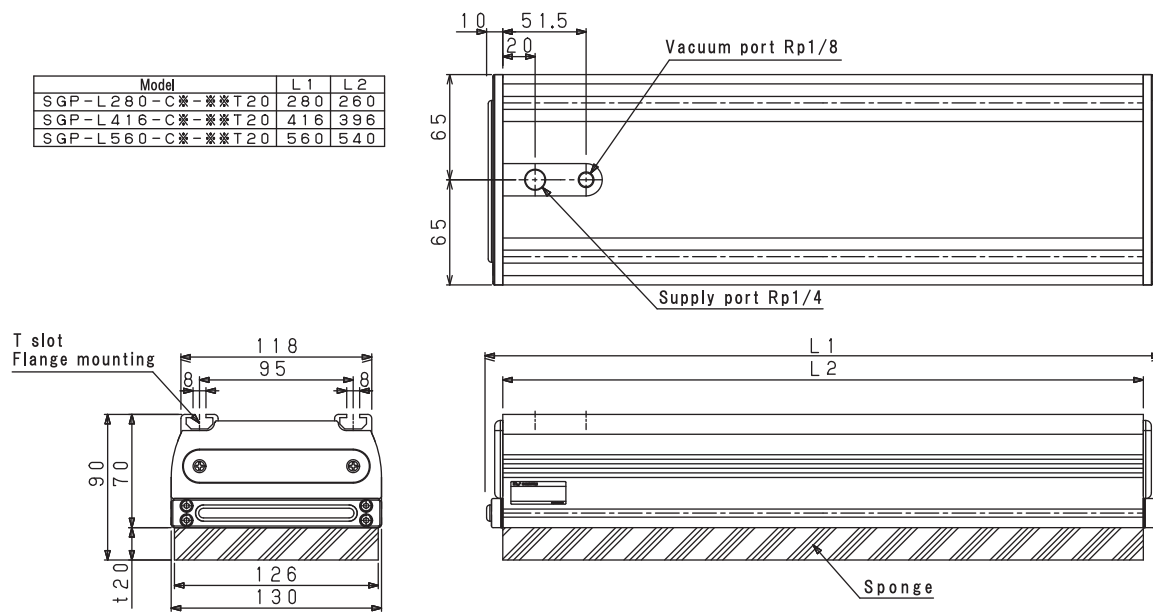
(mm)

PBG-20 suction cups mounted type (Without flange/sensor)



Please refer to suction cup dimensions for other suction cups.

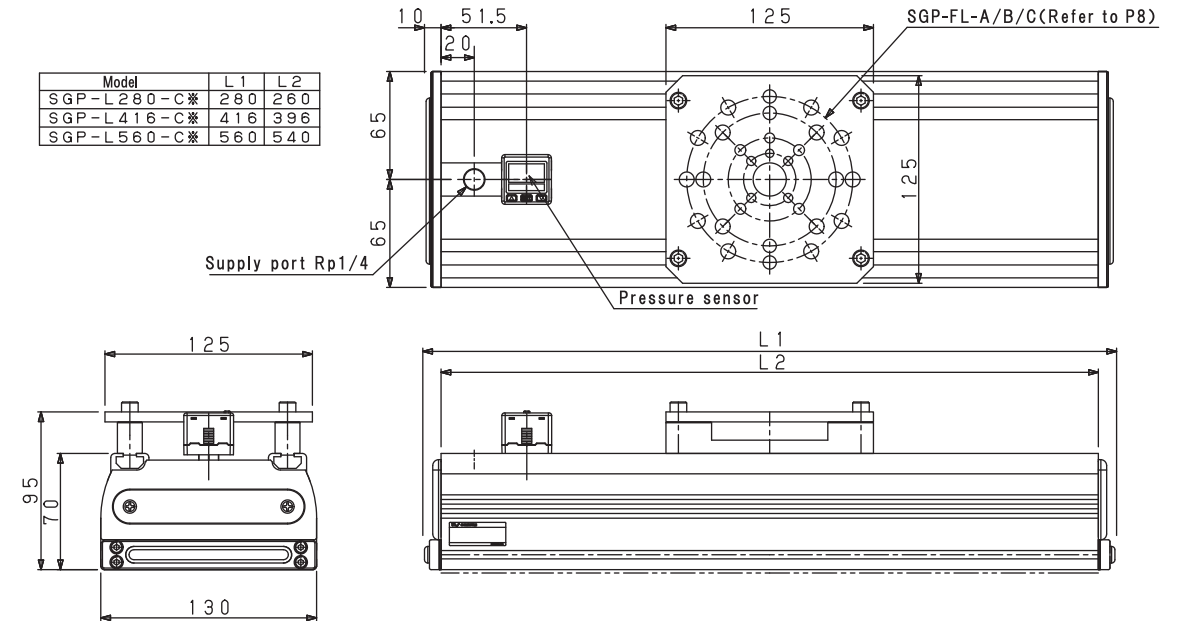
Sponge pad type



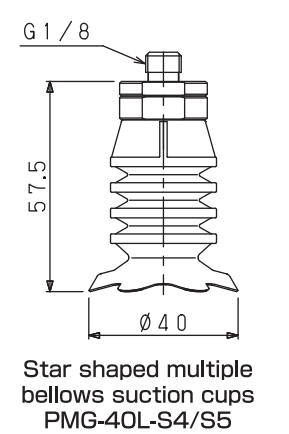
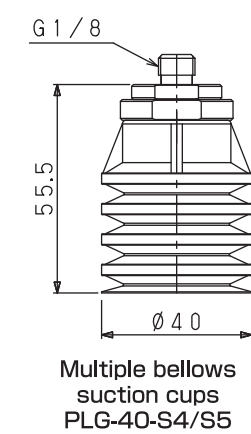
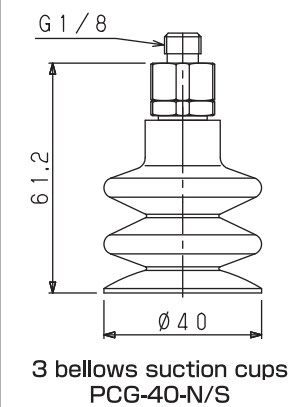
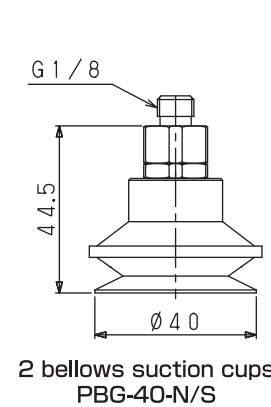
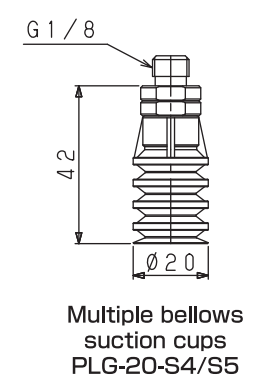
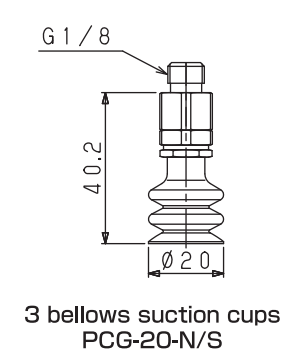
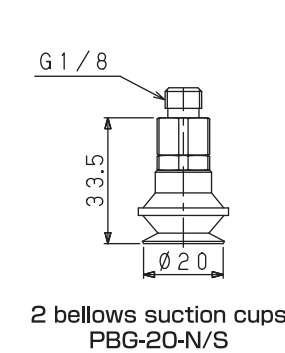
Dimensions Built-in CONVUM type

(mm)

Suction cups mounted type (With flange/sensor)



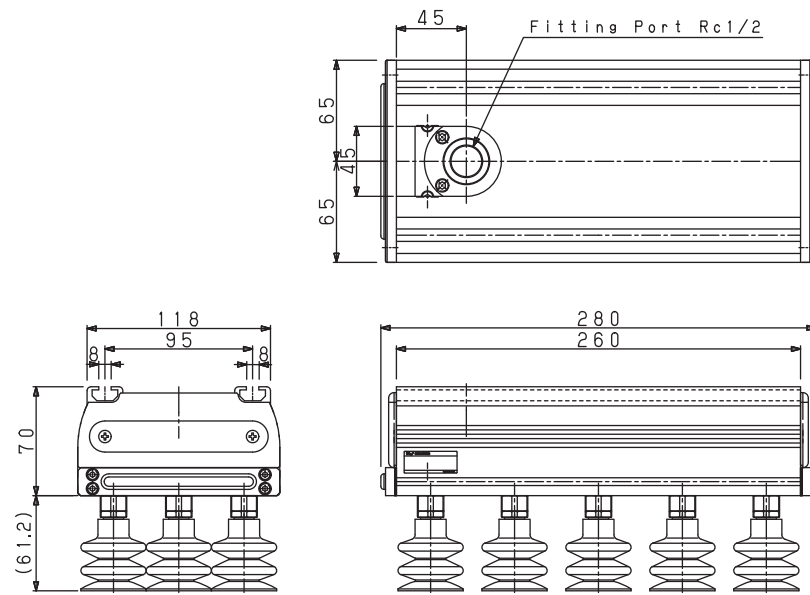
Suction cup with fitting



Dimensions Without vacuum generator type

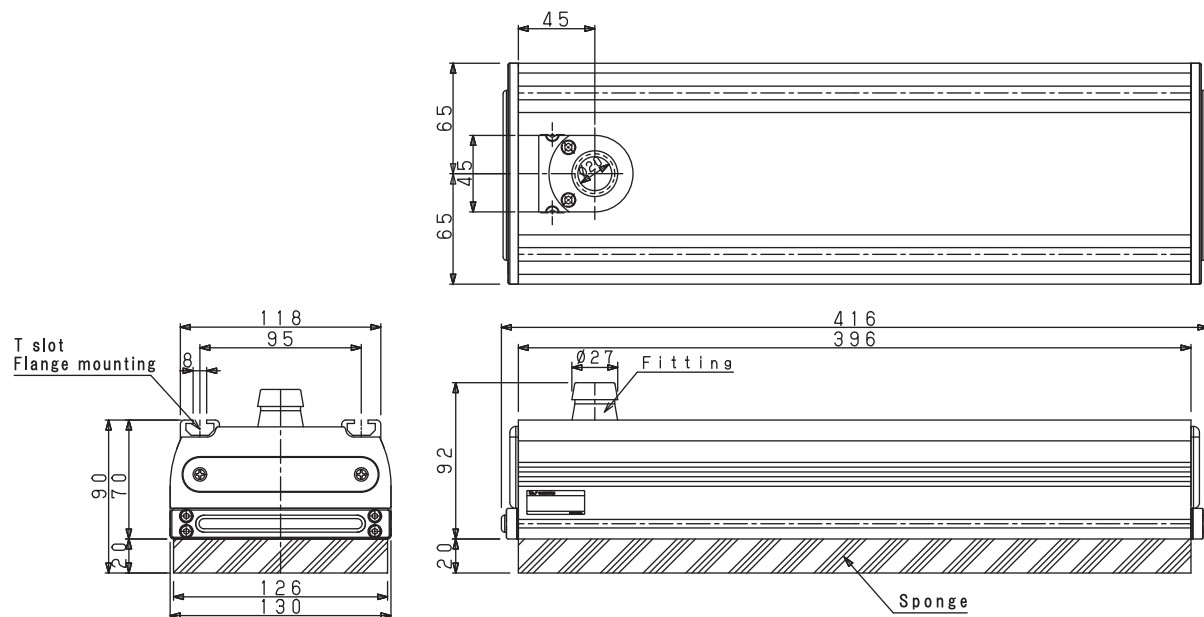
(mm)

L280 type (With PCG-40 suction cups)



Please refer to suction cup dimensions for other suction cups.

L416 type (With sponge pad)

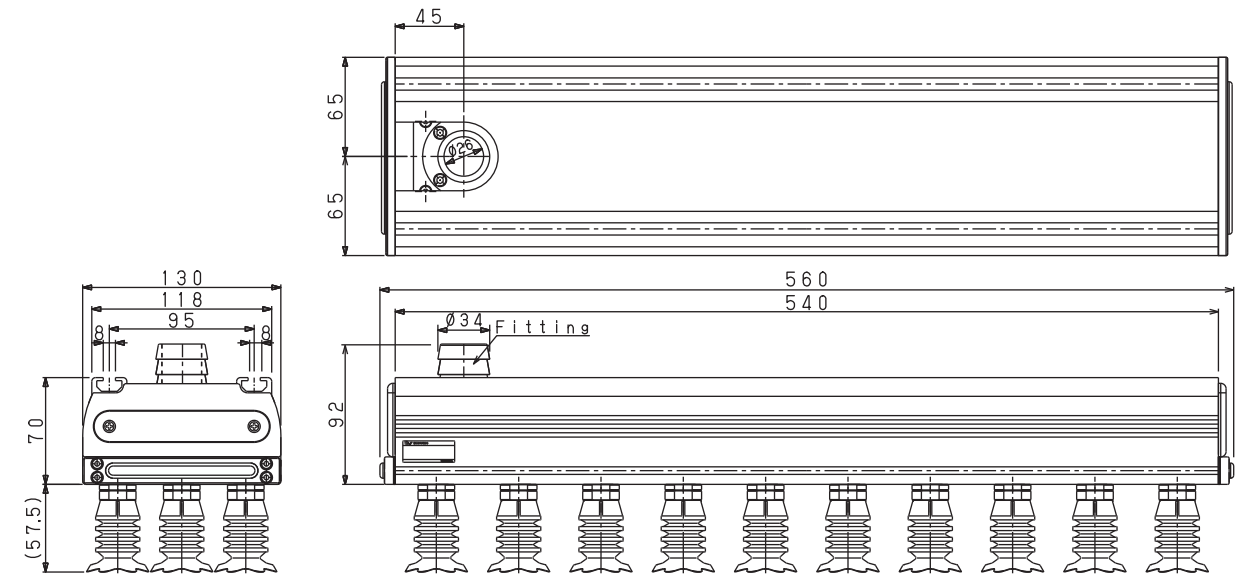


Please refer to suction cup dimensions for other suction cups.

Dimensions Without vacuum generator type

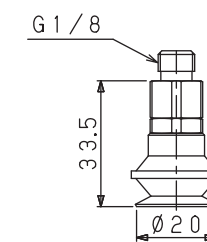
(mm)

L560 type (With PMG-40 suction cups)

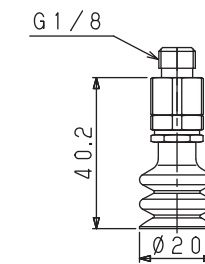


Please refer to suction cup dimensions for other suction cups.

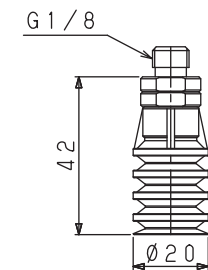
Suction cup with fitting



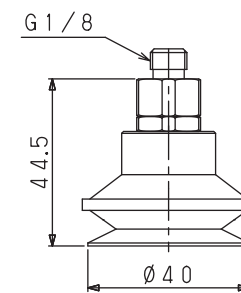
2 bellows suction cups
PBG-20-N/S



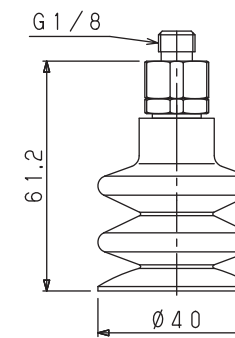
3 bellows suction cups
PCG-20-N/S



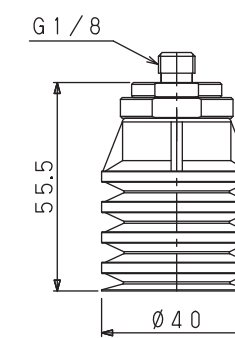
Multiple bellows
suction cups
PLG-20-S4/S5



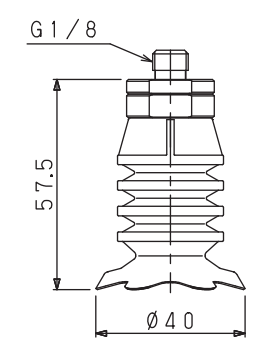
2 bellows suction cups
PBG-40-N/S



3 bellows suction cups
PCG-40-N/S



Multiple bellows
suction cups
PLG-40-S4/S5

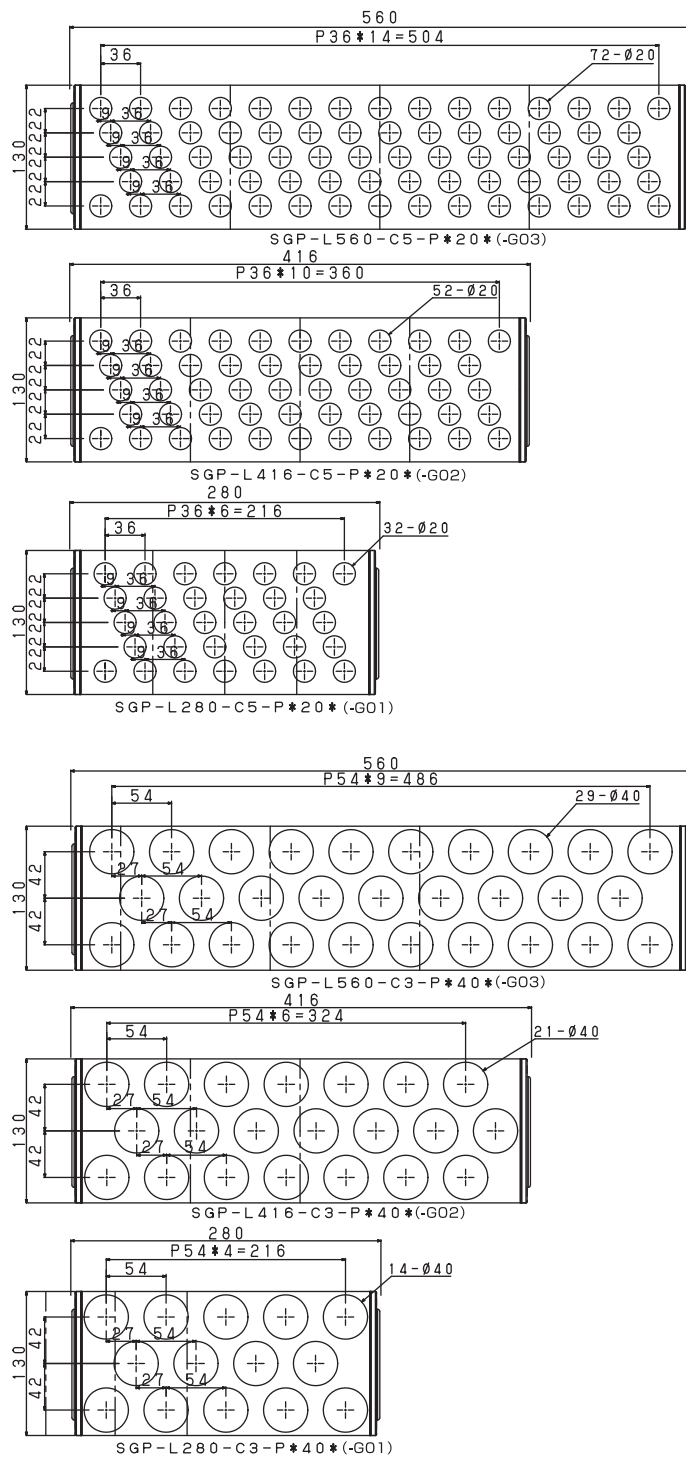


Star shaped multiple
bellows suction cups
PMG-40L-S4/S5

Layout drawing for suction cups (mm)

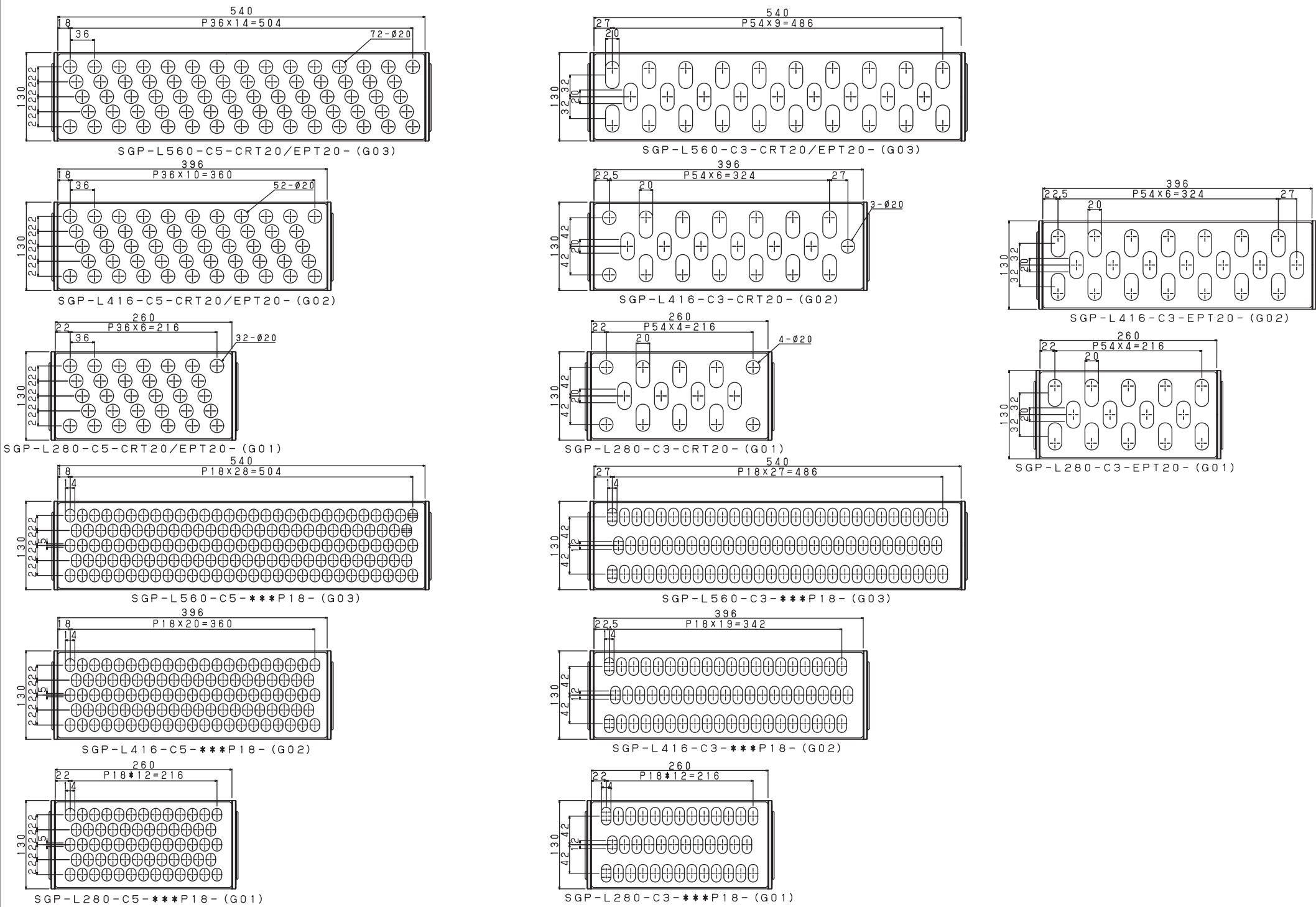
Layout drawing for built-in CONVUM·without vacuum generator type

Suction cup mounted type



Layout drawing for built-in CONVUM·without vacuum generator type

Sponge mounted type



Small type

How to order

SGP – ① N1 – ② 60X120 – ③ PC20S



① Body length (mm)

Symbol	Specifications	Applicable size
N0	Without nozzle	All size · for connecting to external vacuum generator
N1	1 nozzle	40X40
N2	2 nozzle	60X120, 110X110, 110X180

② Body size (mm)

Symbol	Size (mm)	Number of hole	Suction cup screw size	Cup diameter (mm)
40X40	40X40	16	M5	φ5~7
60X120	60X120	14		φ20
110X110	110X110	22		
110X180	110X180	37		

③ Suction cup specifications

Symbol	Suction cup type	Specifications	Applicable size
PS6JN	2 bellows suction cup	φ6、Nitrile rubber 55°	40X40
PS6JS		φ6、Silicone rubber55°	
PS5CN	3 bellows suction cup	φ5、Nitrile rubber 55°	
PS5CS		φ5、Silicone rubber55°	
PS7CN		φ7、Nitrile rubber 55°	
PS7CS		φ7、Silicone rubber55°	
PJ20N	2 bellows suction cup	φ20、Nitrile rubber 55°	60X120 110X110 110X180
PJ20S		φ20、Silicone rubber55°	
PC20N	3 bellows suction cup	φ20、Silicone rubber40°	
PC20S		φ20、Silicone rubber55°	
EPT ^{note}	Sponge pad	Eptsealer 1°	All size
Z	Without suction cup		

Note) Sponge thickness: 40X40=5mm, 60X120, 110X180=8mm

Applicable model list・Mass table

Suction cup specification	Model	Mass (kg)	Suction cup specification	Model	Mass (kg)
2 bellows suction cup	SGP-N0-40X40-PS6J□	112	Sponge pad	SGP-N0-40X40-EPT	97
	SGP-N1-40X40-PS6J□	118		SGP-N1-40X40-EPT	104
	SGP-N0-60X120-PJ20□	498		SGP-N0-60X120-EPT	447
	SGP-N2-60X120-PJ20□	520		SGP-N2-60X120-EPT	470
	SGP-N0-110X110-PJ20□	666		SGP-N0-110X110-EPT	586
	SGP-N2-110X110-PJ20□	688		SGP-N2-110X110-EPT	608
	SGP-N0-110X180-PJ20□	921		SGP-N0-110X180-EPT	787
	SGP-N2-110X180-PJ20□	944		SGP-N2-110X180-EPT	825
3 bellows suction cup	SGP-N0-40X40-PS5C□	112	Without suction cup	SGP-N0-40X40-Z	97
	SGP-N1-40X40-PS5C□	118		SGP-N1-40X40-Z	102
	SGP-N0-40X40-PS7C□	113		SGP-N0-60X120-Z	441
	SGP-N1-40X40-PS7C□	119		SGP-N2-60X120-Z	464
	SGP-N0-60X120-PC20□	524		SGP-N0-110X110-Z	577
	SGP-N2-60X120-PC20□	545		SGP-N2-110X110-Z	599
	SGP-N0-110X110-PC20□	707		SGP-N0-110X180-Z	771
	SGP-N2-110X110-PC20□	729		SGP-N2-110X180-Z	794
	SGP-N0-110X180-PC20□	989			
	SGP-N2-110X180-PC20□	1012			

Note) □ indicates suction cup material

Specifications(CONVUM built in type)

	Unit	SGP-N1-40X40	SGP-N2-60X120	SGP-N2-110X110	SGP-N2-110X180
Fluid		Oil-free compressed air			
Operating ambient temperature	℃	0~50(Without frozen)			
Operating pressure range	MPa	0.15~0.55			

Built-in CONVUM performance

Supplied air pressure	MPa	0.45	0.48	0.48	0.48
Max. vacuum pressure	kPa	-88			
Suction flow rate ^{note}	L/min(ANR)	27	130		
Air consumption amount ^{note}	L/min(ANR)	50	200		
Exhausted air sound volume	Vacuum port open dB(A)	74	79		
	Vacuum port close dB(A)	74	80		

Note) CONVUM performance only

Recommended vacuum generator specifications

	Unit	SGP-N0-40X40	SGP-N0-60X120	SGP-N0-110X110	SGP-N0-110X180
Recommended vacuum pressure	kPa	-88			
Recommended suction flow rate	L/min(ANR)	27以上	130以上		

Maintenance part・Accessories

Plug(Filler plug) · · · To close the disused hole of suction cup.

CRK-PM5

Note) It can be used when reducing suction cup quantity to use.

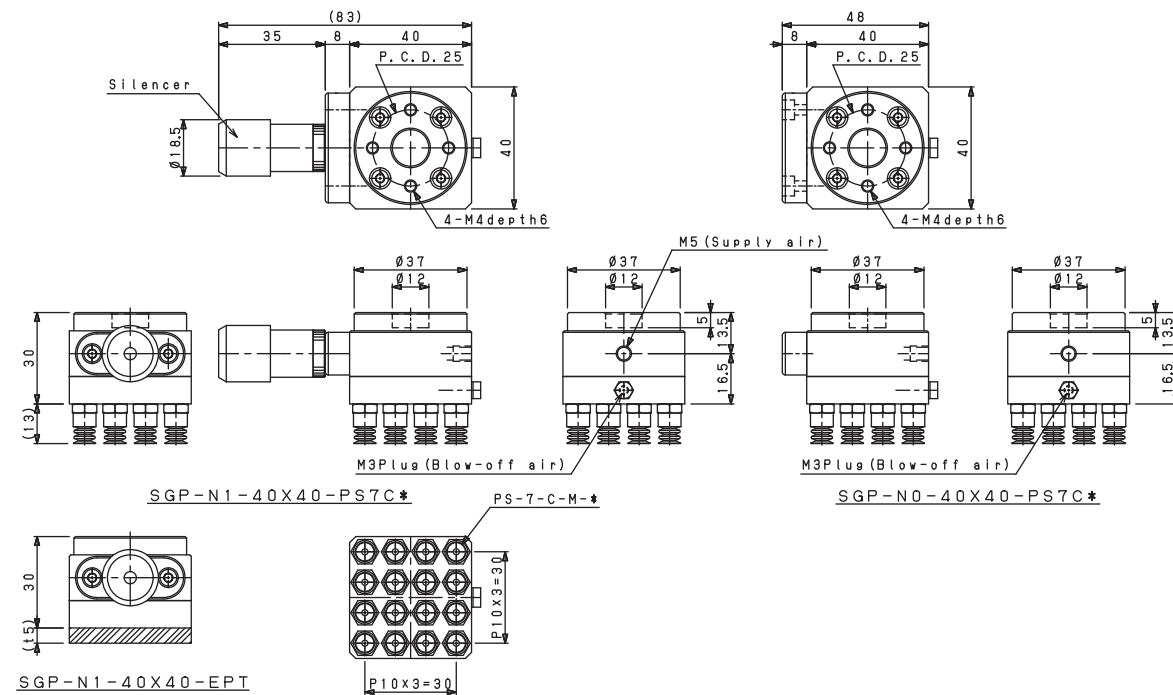
Suction cup・Setting screw

Model	Suction cup	Setting screw	Model	Suction cup
SGP-N0-40X40-PS6J□	PJG-6-□	TN-PS-10-M5	SGP-N0-40X40-EPT	SP40X40EP
SGP-N1-40X40-PS6J□			SGP-N1-40X40-EPT	
SGP-N0-60X120-PJ20□	PJG-20-□	TN-PF-20-M5	SGP-N0-60×120-EPT	SP60X120EP
SGP-N2-60×120-PJ20□			SGP-N2-60×120-EPT	
SGP-N0-110X110-PJ20□			SGP-N0-110X110-EPT	SP110X110EP
SGP-N2-110X110-PJ20□			SGP-N2-110X110-EPT	
SGP-N0-110X180-PJ20□			SGP-N0-110X180-EPT	SP110X180EP
SGP-N2-110X180-PJ20□			SGP-N2-110X180-EPT	
SGP-N0-40X40-PS5C□	PCG-5-□	TN-PS-10-M5	Note) □ indicates suction cup material	
SGP-N1-40X40-PS5C□				
SGP-N0-40X40-PS7C□	PCG-7-□			
SGP-N1-40X40-PS7C□				
SGP-N0-60X120-PC20□	PCG-20-□	TN-PC-10-M5H		
SGP-N2-60×120-PC20□				
SGP-N0-110X110-PC20□				
SGP-N2-110X110-PC20□				
SGP-N0-110X180-PC20□				
SGP-N2-110X180-PC20□				

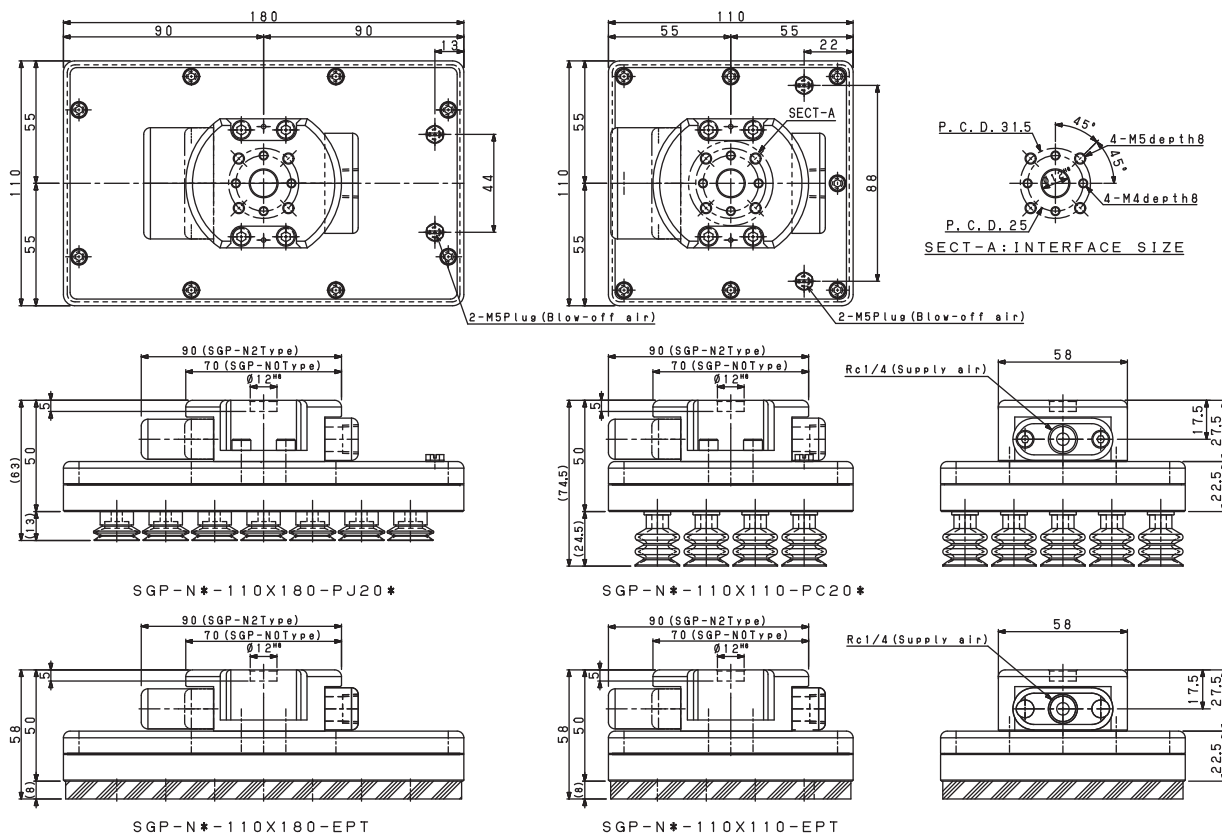
Dimensions

(mm)

Size : 40X40



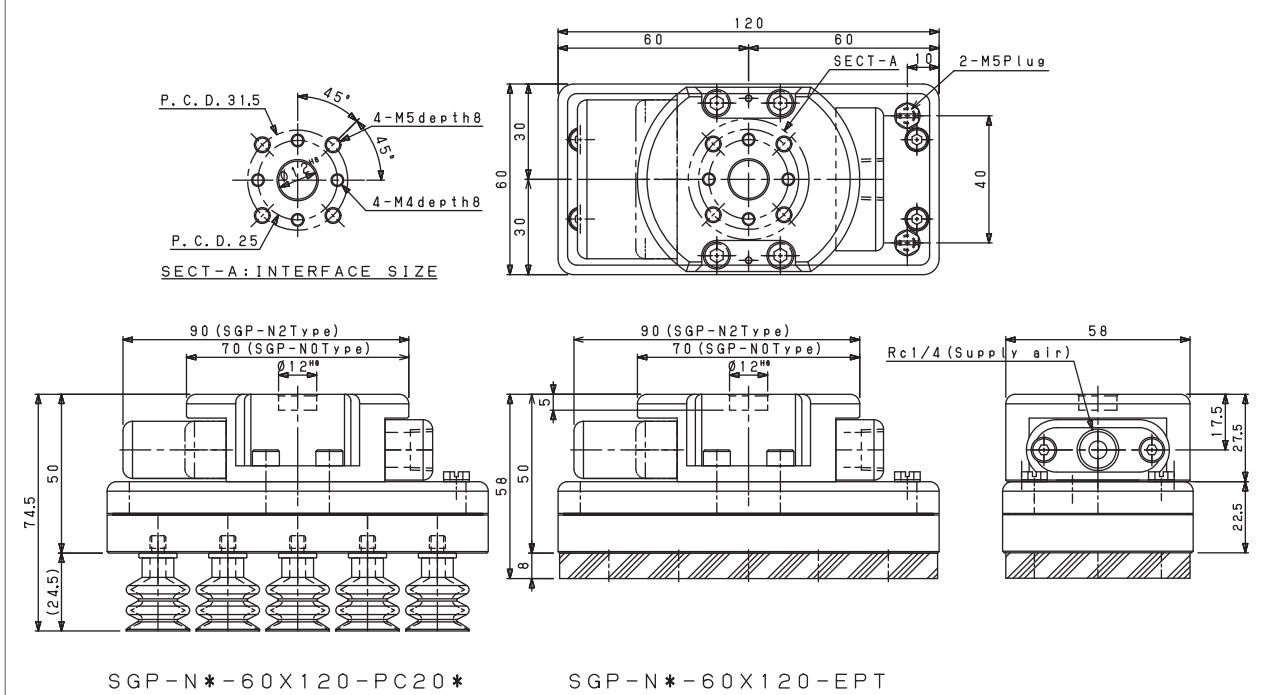
Size : 110X110、110X180



Dimensions

mm)

Size : 60X120



Layout drawing for suction cups

