SBP Series

PU Bellows Suction Cup

PACKAGING LONG LIFETIME

RoHS

Features

◇ 1.5 Bellows
◇ Internal support structure at bottom
◇ PU material
◇ Various sizes are available



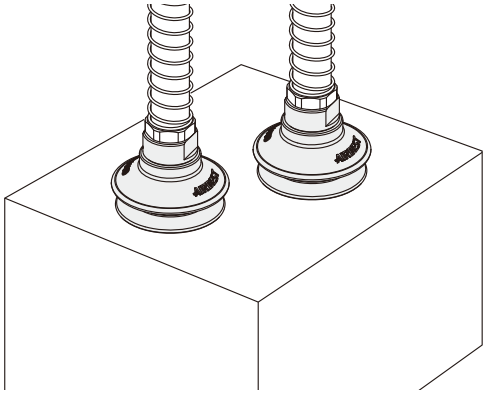
Advantages

◇ Easy to fit the uneven surface of workpiece, and has buffer effect
◇ Prevent thin workpieces from permanent deformation
◇ Good wear resistance, long lifetime
◇ Suitable for workpieces with different sizes and shapes



Applications

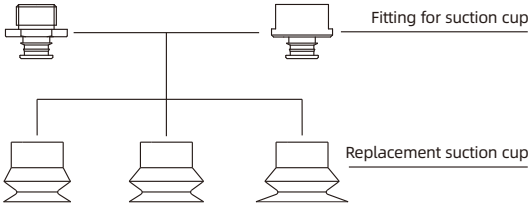
◇ Suitable for handling cardboard box or cardboard
◇ Suitable for handling carton or handling in packaging machinery
◇ Suitable for stacking and unstacking
◇ PU material has good wear resistance, suitable for heavy load occasions



Structure

◇ For suction cup with diameter ϕ10-ϕ50mm, suction cup and fitting are split structure design
◇ For suction cup with diameter ϕ70mm, suction cup and fitting are one-piece structure design
◇ Fitting for suction cup is with filter mesh

In same series, replacement suction cup and fitting can be combined on request



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How to order

SBP 30 U - G1F

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
SBP	10 - ϕ10mm	U - PU 60	Nil - Suction cup only
	15 - ϕ15mm	UY - PU 40	M5M - M5×0.8 male thread
	20 - ϕ20mm	UD - PU 30 60	G1M - G1/8 male thread
	30 - ϕ30mm		G2M - G1/4 male thread
	40 - ϕ40mm		G3M - G3/8 male thread
	50 - ϕ50mm		G1F - G1/8 female thread
	70 - ϕ70mm		G2F - G1/4 female thread
			G3F - G3/8 female thread

Selection

Model	Connection thread M - Male thread		F - Female thread	
SBP10□	SBP10□-M5M		-	
SBP15□	SBP15□-M5M		-	
SBP20□	SBP20□-G1M		SBP20□-G1F	
SBP30□	SBP30□-G1M		SBP30□-G1F	
SBP40□	SBP40□-G1M		SBP40□-G1F	
SBP50□	SBP50□-G2M	SBP50□-G3M	SBP50□-G2F	SBP50□-G3F
SBP70□	SBP70□-G3M		SBP70□-G3F	

◇ Note: UD material is not available for SBP10

Technical parameters

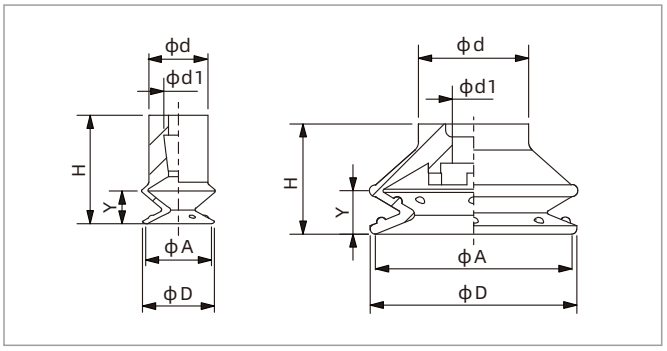
Model	Pull-out force N	Inner volume cm^3	Min.curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SBP10	3.5	0.2	10	0.8	6	5
SBP15	7.9	0.5	25	1.4	6	5
SBP20	14	2	31	2.1	6	5
SBP30	31	4	47	4.8	6	5
SBP40	56.5	9	59	11.5	6	1
SBP50	88	17	68	20.7	8	1
SBP70	173	55	91	68.3	10	1

◇ Note: Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces.Recommend the length of vacuum hose to be as short as possible, max 2m.

SBP Series

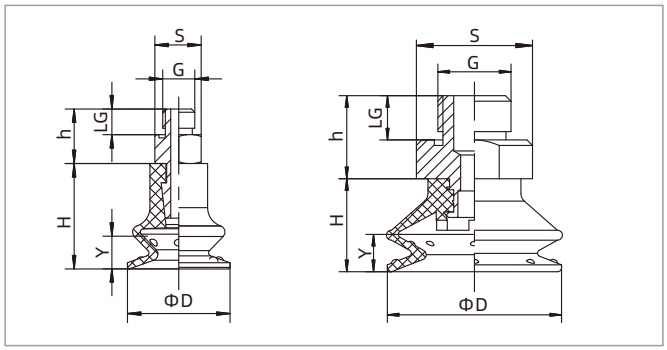
PU Bellows Suction Cup

Dimensions(mm)



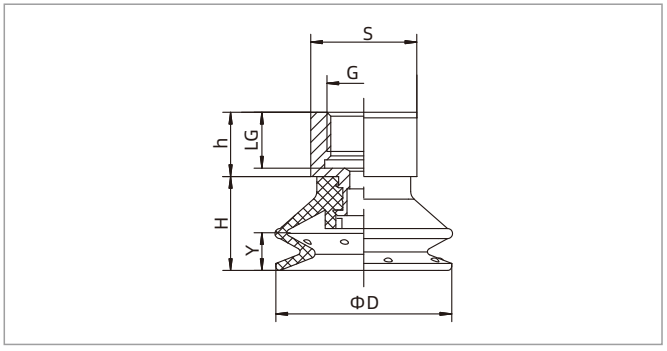
SBP10-15 SBP20-50

Model/Size	D	H	A	d	d1	Y
SBP10□	10.9	16.5	10	9	5	5
SBP15□	16	19	15	9	5.5	5.8
SBP20□	21	18	20	12	5	7.5
SBP30□	31.5	16.8	30	16.8	6.5	6.6
SBP40□	42	22.4	40	22.4	6.5	8.8
SBP50□	52.5	29.3	50	28	10.5	12.3



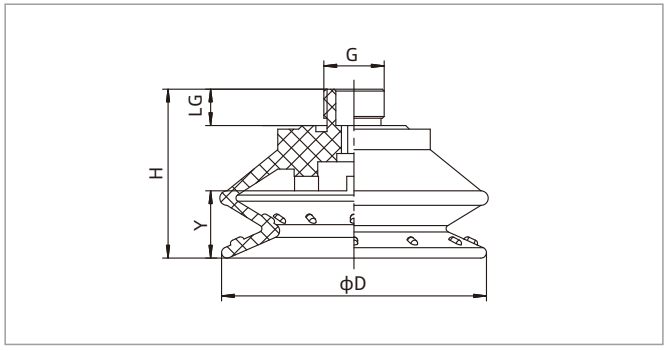
SBP10-50 Male thread connection

Model/Size	D	H	G	h	LG	S	Y
SBP10□-M5M	10.9	16.5	M5×0.8	7.5	3.5	7	5
SBP15□-M5M	16	19	M5×0.8	7.5	3.5	7	5.8
SBP20□-G1M	21	18	G1/8	7.8	6	13	7.5
SBP30□-G1M	31.5	16.8	G1/8	12	6	17	6.6
SBP40□-G1M	42	22.4	G1/8	12	6	17	8.8
SBP50□-G2M	52.5	29.3	G1/4	17	9	24	12.3
SBP50□-G3M	52.5	29.3	G3/8	18	10	24	12.3



SBP20-50 Female thread connection

Model/Size	D	H	G	h	LG	S	Y
SBP20□-G1F	21	18	G1/8	8	7	13	7.5
SBP30□-G1F	31.5	16.8	G1/8	10	7	17	6.6
SBP40□-G1F	42	22.4	G1/8	10	7	17	8.8
SBP50□-G2F	52.5	29.3	G1/4	13	10	24	12.3
SBP50□-G3F	52.5	29.3	G3/8	13	11	24	12.3



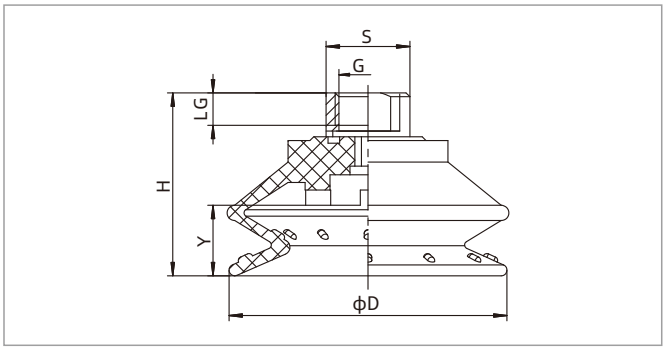
SBP70 Male thread connection

Model/Size	D	H	G	LG	Y
SBP70□-G3M	73	46.5	G3/8	10	16.5

SBP Series

PU Bellows Suction Cup

Dimensions(mm)



Model/Size	D	H	G	LG	S	Y
SBP70□-G3F	73	48	G3/8	11.5	22	16.5

SBP70 Female thread connection

◇ Note: The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard

Mounting parts

Item	Model M - Male thread	F - Female thread	Applicable suction cup
Fitting for suction cup	PJS-M5M-SC3	-	SBP10, 15
	PJS-G1M-SF1-EW	PJS-G1F-SF1-EW	SBP20
	PJS-G1M-SF2-EW	PJS-G1F-SF2-EW	SBP30, 40
	PJS-G2M-SF3-EW	PJS-G2F-SF3-EW	SBP50
	PJS-G3M-SF3-EW	PJS-G3F-SF3-EW	SBP50