SB Series

Universal Bellows Suction Cup

UNIVERSAL

RoHS

Features

◇ 1.5 Bellows
◇ Support structure at the bottom
◇ Various sizes for option

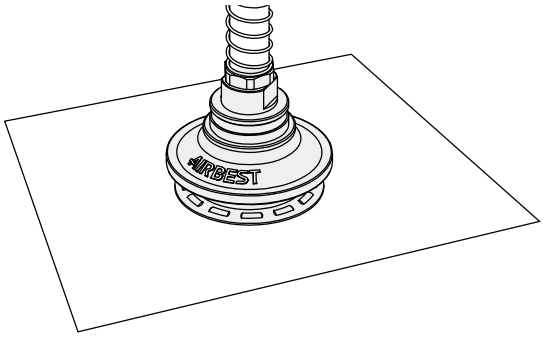


Advantages

◇ Easy to fit uneven surface of workpiece, and has buffer effect
◇ Handling thin workpiece without permanent deformation
◇ Suitable for workpieces with different sizes and shapes

Applications

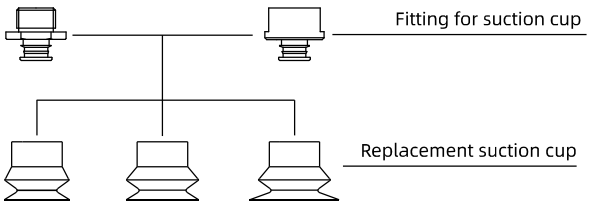
◇ Handling of workpieces with uneven surface, such as carton, cardboard, cambered workpiece, pipe, etc
◇ Handling fragile workpieces, such as electronic components, plastic injection parts, etc
◇ Handling smooth wood plate, smooth steel plate and so on



Structure

◇ 1.5 Bellows,large compressed stroke.
◇ Suction cup and fitting are split structure design, wearing parts can be replaced separately.

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



SB Series

Universal Bellows Suction Cup

How to order

SB 30 N - G1M - EW

① ② ③ ④ ⑤

① Series	② Diameter		③ Material & Hardness		④ Connection thread	⑤ Special specification
SB	5 - ϕ5mm	20 - ϕ20mm	N - NBR	55	Nil - Suction cup only	Nil - Standard
	6 - ϕ6mm	30 - ϕ30mm	S - Silicone	50	M5M - M5×0.8 male thread	EW - With mesh filter
	8 - ϕ8mm	40 - ϕ40mm	WS - White silicone	50	G1M - G1/8 male thread	EH - With throttle valve
	10 - ϕ10mm	50 - ϕ50mm	CS - Conductive silicone	55	G2M - G1/4 male thread	
	12 - ϕ12mm	75 - ϕ75mm			G3M - G3/8 male thread	
	15 - ϕ15mm	110 - ϕ110mm			G1F - G1/8 female thread	
	17 - ϕ17mm	150 - ϕ150mm			G2F - G1/4 female thread	
					G3F - G3/8 female thread	
					G4F - G1/2 female thread	

Selection

Model	Connection thread M - Male thread		F - Female thread	
SB5□	SB5□-M5M		-	
SB6□	SB6□-M5M		-	
SB8□	SB8□-M5M		-	
SB10□	SB10□-M5M		-	
SB12□	SB12□-M5M		-	
SB15□	SB15□-M5M		-	
SB17□	SB17□-G1M(-EW/EH)		SB17□-G1F(-EW/EH)	
SB20□	SB20□-G1M(-EW/EH)		SB20□-G1F(-EW/EH)	
SB30□	SB30□-G1M(-EW/EH)		SB30□-G1F(-EW/EH)	
SB40□	SB40□-G1M(-EW/EH)		SB40□-G1F(-EW/EH)	
SB50□	SB50□-G2M(-EW/EH)	SB50□-G3M(-EW/EH)	SB50□-G2F(-EW/EH)	SB50□-G3F(-EW/EH)
SB75□	-		SB75□-G2F	
SB110□	-		SB110□-G4F	
SB150□	-		SB150□-G4F	

SB Series

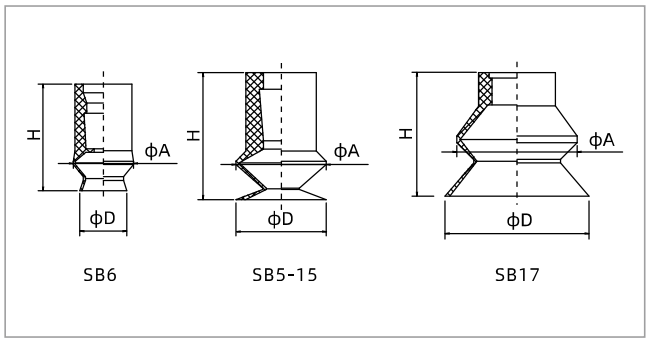
Universal Bellows Suction Cup

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
SB5	0.8	<0.1	8	0.3	4	10
SB6	1.2	<0.1	8	0.5	4	10
SB8	2.1	<0.1	10	0.4	4	10
SB10	3.2	0.4	12	0.9	4	10
SB12	4.7	0.5	15	1.5	6	10
SB15	7.4	0.8	20	1.5	6	10
SB17	9.5	1.1	25	1	6	10
SB20	18	1.2	30	3	6	5
SB30	33	14	35	7.5	6	5
SB40	60	18	50	13	6	5
SB50	92	26	80	24	8	1
SB75	210	96	60	68	8	1
SB110	412	314	120	178	12	1
SB150	740	798	160	439.5	12	1

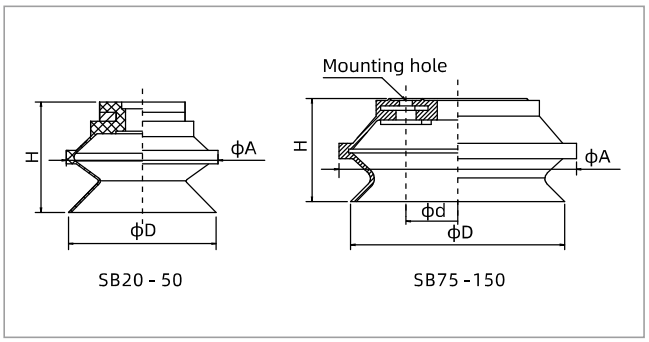
◇ Note:Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces.Recommend the length of vacuum hose to be as short as possible, max 2m.

Dimentions(mm) - Suction cup only



Model/Size	D	A	H
SB5□	5.8	6.2	9.2
SB6□	7	9	13.5
SB8□	8.8	9.6	11.9
SB10□	11	12	16
SB12□	12	14	16.5
SB15□	17.5	17.5	19.5
SB17□	18.5	16.6	15.6

SB



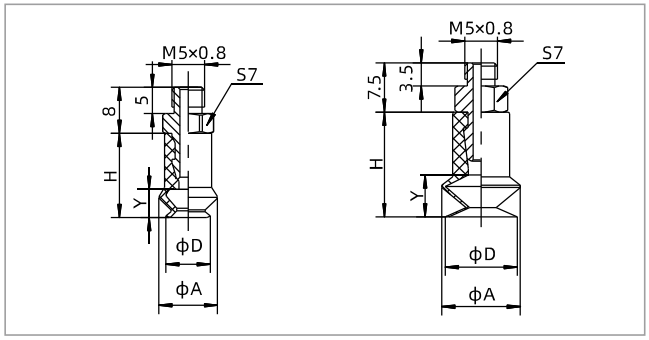
Model/Size	D	A	H	d	Mounting hole
SB20□	22	24	19	-	-
SB30□	34	36	26	-	-
SB40□	43	46	28	-	-
SB50□	53	58	35	-	-
SB75□	78	83	37	35	4-ϕ6
SB110□	115	124	54	55	8-ϕ6
SB150□	155	166	71	70.5	8-ϕ6

SB

SB Series

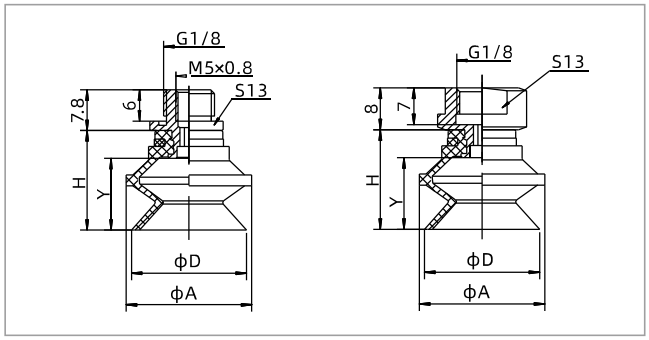
Universal Bellows Suction Cup

Dimentions(mm) - Suction cup with fitting



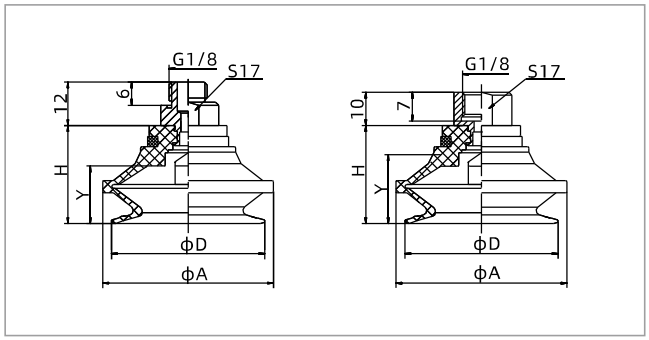
SB6□-M5M　　SB□□-M5M

Model/Size	D	A	H	Y
SB5□-M5M	5.8	6.2	9.2	3.6
SB6□-M5M	7	9	13.5	4.5
SB8□-M5M	8.8	9.6	11.9	6.5
SB10□-M5M	11	12	16	7
SB12□-M5M	12	14	16.5	5.5
SB15□-M5M	15.5	17.5	19.5	10



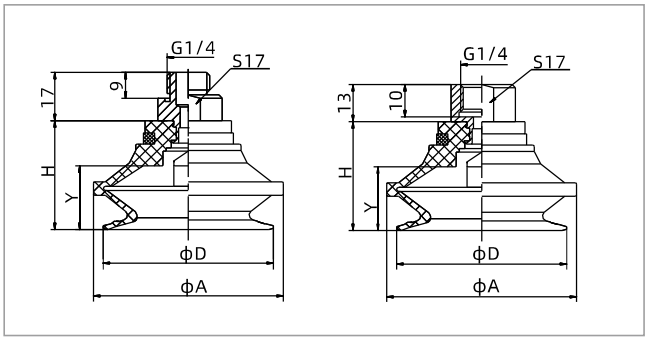
SB□□-G1M　　SB□□-G1F

Model/Size	D	A	H	Y
SB17□-G1M	18.5	16.6	15.6	10.5
SB17□-G1F	18.5	16.6	15.6	10.5
SB20□-G1M	22	24	19	9
SB20□-G1F	22	24	19	9



SB□□-G1M　　SB□□-G1F

Model/Size	D	A	H	Y
SB30□-G1M	34	36	26	19
SB30□-G1F	34	36	26	19
SB40□-G1M	43	46	28	20
SB40□-G1F	43	46	28	20



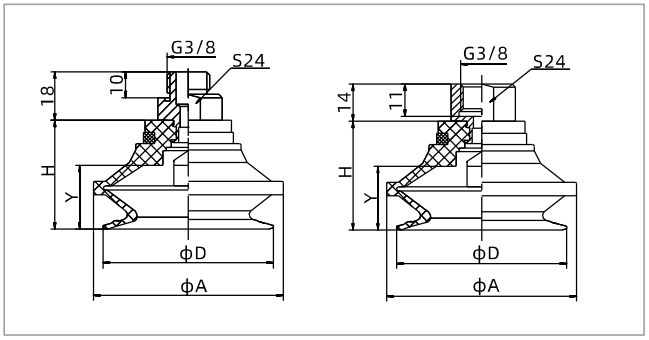
SB50□-G2M　　SB50□-G2F

Model/Size	D	A	H	Y
SB50□-G2M	53	58	35	20
SB50□-G2F	53	58	35	20

SB Series

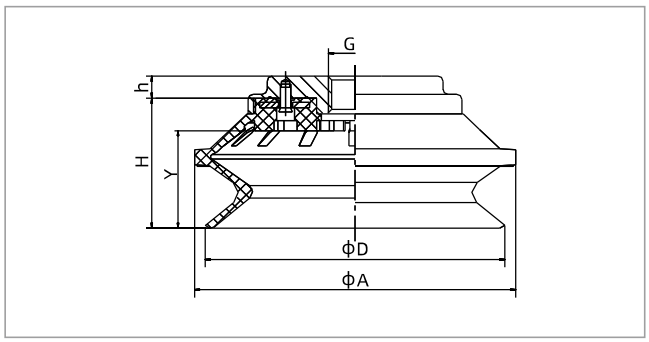
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Dimensions(mm) - Suction cup with fitting



SB50□-G3M SB50□-G3F

Model/Size	D	A	H	Y
SB50□-G3M	53	58	35	20
SB50□-G3F	53	58	35	20



SB75-150

Model/Size	D	A	H	h	G	Y
SB75□-G2F	78	83	37	13	G1/4	27
SB110□-G4F	115	124	54	9	G1/2	38.5
SB150□-G4F	155	166	71	10	G1/2	44.5

◇ 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-SC1	-	SB6
	PJS-M5M-SC2	-	SB5,8
	PJS-M5M-SC3	-	SB10,12,15
	PJS-G1M-SF1	PJS-G1F-SF1	SB17,20
	PJS-G1M-SF2	PJS-G1F-SF2	SB30,40
	PJS-G2M-SF3	PJS-G2F-SF3	SB50
	PJS-G3M-SF3	PJS-G3F-SF3	SB50
	-	PJS-G2F-SF75	SB75
	-	PJS-G4F-SF110	SB110
	-	PJS-G4F-SF150	SB150

SBA Series

1.5 Bellows Suction Cup

UNIVERSAL

RoHS

Features

◇ 1.5 Bellows
◇ Special material with high temperature resistance is optional
◇ Various sizes for option

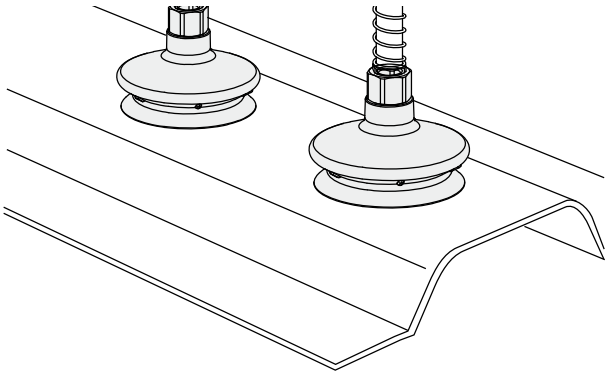


Advantages

◇ Easy to fit uneven surface of workpiece, has buffer effect
◇ Can handle workpiece with high temperature
◇ Fitting can be used repeatedly, greatly reducing customer's cost
◇ Suitable for workpieces with different sizes and shapes

Applications

◇ Handling of workpieces with uneven surface, such as carton, cardboard, cambered workpiece, pipe, etc.
◇ Handling high temperature plastic injection parts, metal sheet, glass, etc.
◇ Handling smooth wood plate, smooth steel plate and so on



Structure

◇ 1.5 Bellows, large compressed stroke
◇ Suction cup and fitting are split structure design, wearing parts can be replaced separately
◇ Mark free plug is optional, for grasping without any mark

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

