

SB Series

Universal Bellows Suction Cup

AIRBEST



RoHS

Features

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

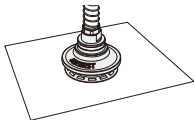
Advantages

- ◇ 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.



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 - ϕ 5mm	20 - ϕ 20mm	N - NBR	Nil - Standard
	6 - ϕ 6mm	30 - ϕ 30mm	S - Silicone	EW - With mesh filter
	8 - ϕ 8mm	40 - ϕ 40mm	WS - White silicone	EH - With throttle valve
	10 - ϕ 10mm	50 - ϕ 50mm	CS - Conductive silicone	
	12 - ϕ 12mm	75 - ϕ 75mm		
	15 - ϕ 15mm	110 - ϕ 110mm		
	17 - ϕ 17mm	150 - ϕ 150mm		
			MSM - M5x0.8 male thread	
			G1M - G1/8 male thread	
			G2M - G1/4 male thread	
			G3M - G3/8 male thread	
			G1F - G1/8 female thread	
			G2F - G1/4 female thread	
			G3F - G3/8 female thread	
			G4F - G1/2 female thread	

Selection

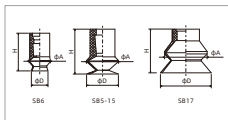
Model	Connection thread M - Male thread	F - Female thread
SB5□	SB5□-M5M	-
SB6□	SB6□-M5M	-
SB8□	SB8□-M5M	-
SB10□	SB10□-M5M	-
SB12□	SB12□-M5M	-
SB15□	SB15□-M5M	-
SB17□	SB17□-G1M(-EW/EH)	SB17□-G1F(-EW/EH)
SB20□	SB20□-G1M(-EW/EH)	SB20□-G1F(-EW/EH)
SB30□	SB30□-G1M(-EW/EH)	SB30□-G1F(-EW/EH)
SB40□	SB40□-G1M(-EW/EH)	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

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

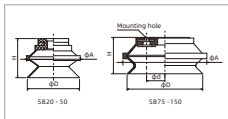
○ Note: Testing vacuum level -66kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces. Recommend the length of vacuum hose to be as short as possible, max 2m.

Dimensions(mm) - Suction cup only



SB

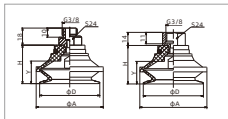
Model/Size	D	A	H
SB5□	5.8	6.2	9.2
SB6□	7	9	13.5
SB8□	8.8	9.6	11.9
SB10□	11	12	16
SB12□	12	14	16.5
SB15□	17.5	17.5	19.5
SB17□	18.5	16.6	15.6



SB

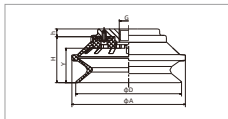
Model/Size	D	A	H	d	Mounting hole
SB20□	22	24	19	-	-
SB30□	34	36	26	-	-
SB40□	43	46	28	-	-
SB50□	53	58	35	-	-
SB75□	78	83	37	35	4-φ6
SB110□	115	124	54	55	8-φ6
SB150□	155	166	71	70.5	8-φ6

Dimensions(mm) - Suction cup with fitting



SB50□-G3M

SB50□-G3F



SB75□-G2F

○ Note: The dimensional tolerance conforms to GB/T1672.3-2002-1M3 rubber product dimensional tolerance standard

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

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

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