

SBA Series

1.5 Bellows Suction Cup



Features

- ◇ 1.5 bellows suction cup, which can be horizontal adjusted for transferring objects with height difference.
- ◇ Various materials are available for different workpiece.
- ◇ Various sizes for option.
- ◇ On the basis of bellows suction cup SBA, we install PEEK accessories to the plug of SBA suction cup to prevent static electricity and sucking mark during handling.

Applications

- ◇ Smooth wooden plate
- ◇ Smooth steel plate
- ◇ Carton box
- ◇ Electronic component

How to order

SBA 11 N - M5M - PK

① ② ③ ④ ⑤

① Series	② Diameter	③ Material & Hardness	④ Connection thread	⑤ Plug
SBA	11 - ϕ 11mm 14 - ϕ 14mm 16 - ϕ 16mm 20 - ϕ 20mm 33 - ϕ 33mm	N - NBR 55 WS - White silicone 50 E - EPDM 55 HD - High Temp/ mark free material 60	Nil - Suction cup alone M5M - M5 Male thread M8M - M8 Male thread	Nil - Without mark free plug PK - PEEK material, with mark free plug

Selection

Model/ Connection thread	M5M	M8M	Plug
SBA11 - 20	●	—	●
SBA33	—	●	●

◇Note: "●"- standard, in stock. "—" -unavailable.

Technical parameters

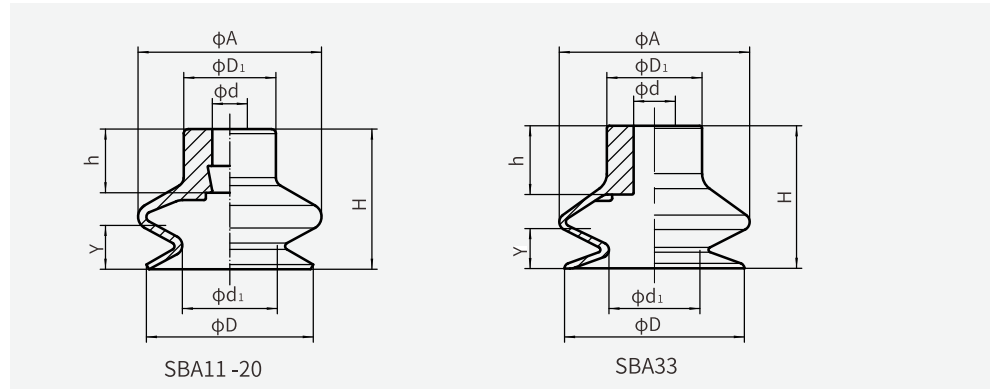
Model	Pull-out force (N)	Inner volume (cm ³)	Min. curve radius of workpiece (mm)	Recommended hose dia. (mm)
SBA11	0.95	0.23	10	6
SBA14	1.2	0.42	13	6
SBA16	2.3	0.75	20	6
SBA20	4.7	1.15	30	6
SBA33	13.6	3.15	40	8

◇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.

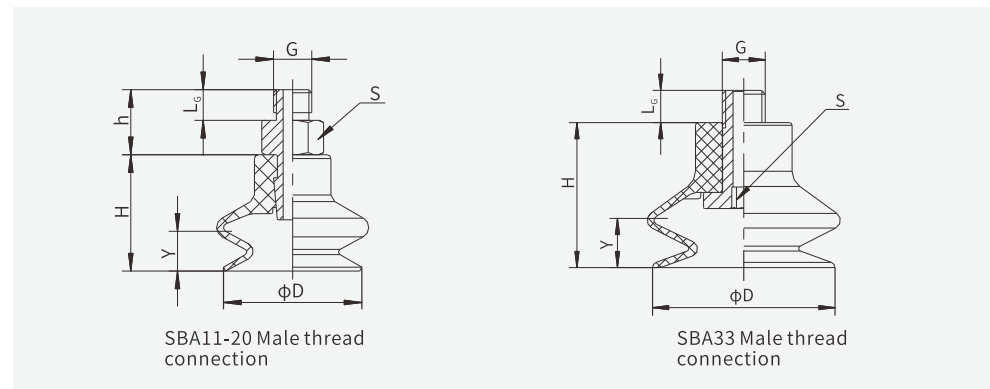
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Dimensions (mm)



Model/ Size	D	H	A	D ₁	d	d ₁	h	Y
SBA11	10.4	16	12	10	4	5	6.9	4
SBA14	12.8	15.5	13.7	10	4	8	6.9	5
SBA16	15.6	19.2	17	10	4	8.5	6.9	7
SBA20	18.1	15.2	20	10	4	11	6.9	5
SBA33	34	27	36	18	8	17	13	9



Model/ Size	D	H	G	L _g	h	S	Y
SBA11-M5M	10.4	16	M5	3.5	7.5	7	4
SBA14-M5M	12.8	15.5	M5	3.5	7.5	7	5
SBA16-M5M	15.6	19.2	M5	3.5	7.5	7	7
SBA20-M5M	18.1	15.2	M5	3.5	7.5	7	5
SBA33-M8M	34	27	M8	6	8	4	9

Mounting parts

Item	Model	Applicable suction cup
Fitting for suction cup	PJS-M5M-SC3	SBA11, 14, 16, 20
	PJS-M8M-ST5	SBA33

◇Note: Please refer to suction cup with locking fitting and level compensator on page 24.