

SBF Series

AIRBEST

1.5 Bellows Suction Cup Special for Metal Sheet



METAL
SHEET



SLIPPING
RESISTANCE



OILY
SURFACE



LONG
LIFETIME

RoHS

Features

- ◇ 1.5 Bellows
- ◇ PU material
- ◇ Internal large area support structure
- ◇ Various sizes for option

Advantages

- ◇ Easy to fit uneven surface of workpiece, and has buffer effect
- ◇ Excellent wear resistance and oil resistance, long lifetime
- ◇ Effectively increase the friction force between suction cups and workpieces
- ◇ Suitable for workpieces with different sizes and shapes



Applications

- ◇ Handling metal sheet in high speed, short cycle time
- ◇ Handling metal sheet and aluminum plate without deformation
- ◇ Special pattern slot design of suction cup prevents from slipping during handling oily sheet metal, ensuring accurate positioning
- ◇ Used in automotive stamping metal parts handling system



Structure

- ◇ 1.5 Bellows, large compressed stroke
- ◇ Suction cup and fitting are one-piece structure design



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How to order

SBF 50 U - G3F

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
SBF	30 - ϕ 32mm	U - PU	G2F - G1/4 female thread
	40 - ϕ 42mm		G3F - G3/8 female thread
	50 - ϕ 51.5mm		G2M - G1/4 male thread
	60 - ϕ 64mm		M10M - M10 $\times$ 1.5 male thread
	80 - ϕ 84mm		RA - Rectangular adapter
	100 - ϕ 103mm		

Selection - Model(Connection thread)

Model	Connection thread G2M	M10M	G2F	G3F	RA - Rectangular adapter
SBF30U-□	SBF30U-G2M	SBF30U-M10M	SBF30U-G2F	SBF30U-G3F	SBF30U-RA
SBF40U-□	SBF40U-G2M	SBF40U-M10M	SBF40U-G2F	SBF40U-G3F	SBF40U-RA
SBF50U-□	SBF50U-G2M	SBF50U-M10M	SBF50U-G2F	SBF50U-G3F	SBF50U-RA
SBF60U-□	SBF60U-G2M	SBF60U-M10M	SBF60U-G2F	SBF60U-G3F	SBF60U-RA
SBF80U-□	SBF80U-G2M	SBF80U-M10M	SBF80U-G2F	SBF80U-G3F	SBF80U-RA
SBF100U-□	SBF100U-G2M	SBF100U-M10M	SBF100U-G2F	SBF100U-G3F	SBF100U-RA

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
SBF30	33	5.5	30	18.5	6	1
SBF40	60	7.0	45	20.0	6	1
SBF50	103	11.5	50	40.0	8	1
SBF60	145	22.0	55	45.0	8	1
SBF80	235	60.0	72	75.0	10	1
SBF100	380	98.0	97	118.0	10	1

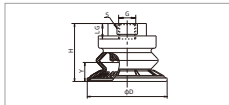
○ Note: Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces.

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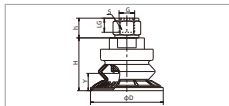
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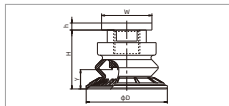
Dimensions(mm)



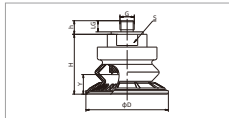
F - Female thread connection



F - Female thread connection



RA - Rectangular adapter



M - Male thread connection

Model/Size	D	H	G	LG	S	Y
SBF30U-G2F	32	28	G1/4	10	17	7
SBF40U-G2F	42	29	G1/4	10	17	9
SBF50U-G3F	51.5	37	G3/8	13	21	12.5
SBF60U-G3F	64	41.5	G3/8	13	21	15
SBF80U-G3F	84	49.5	G3/8	13	21	23
SBF100U-G3F	103	55	G3/8	13	22	22

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SBF50U-G2F	51.5	37	G1/4	14	11	22	12.5
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SBF80U-G2F	84	49.5	G1/4	14	11	22	23
SBF100U-G2F	103	55	G1/4	14	11	22	22

Model/Size	D	H	W	h	Y
SBF30U-RA	32	28	31.8×31.8	4.7	7
SBF40U-RA	42	29	31.8×31.8	4.7	9
SBF50U-RA	51.5	37	31.8×31.8	4.7	12.5
SBF60U-RA	64	41.5	31.8×31.8	4.7	15
SBF80U-RA	84	49.5	31.8×31.8	4.7	23
SBF100U-RA	103	55	31.8×31.8	4.7	22

Model/Size	D	H	G	h	LG	S	Y
SBF30U-G2M	32	28	G1/4	11	9	17	7
SBF30U-M10M	32	28	M10×1.5	13.5	12	17	7
SBF40U-G2M	42	29	G1/4	11	9	17	9
SBF40U-M10M	42	29	M10×1.5	13.5	12	17	9
SBF50U-G2M	51.5	37	G1/4	11	9	21	12.5
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○ Note: The dimensional tolerance conforms to GB/T672.3-2002-1 M3 rubber product dimensional tolerance standard