

SOB Series

AIRBEST

Oval Suction Cup Special for Metal Sheet



METAL
SHEET



LONG AND
NARROW OBJECT



SLIPPING
RESISTANCE



OILY
SURFACE

RoHS

Suction Cup

Features

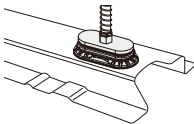
- ◇ 1.5 Bellows oval structure
- ◇ Internal large area pattern support structure
- ◇ Various sizes and specifications are available

Advantages

- ◇ Handling long and narrow workpieces with even surface or curvature
- ◇ The max. temp of HK material is 250°C, it can be used to pick up high temp metal sheet
- ◇ The max. temp of HD material is 160°C, it can be used to pick up high temp glass without mark
- ◇ Suitable for workpieces with different sizes and shapes

Applications

- ◇ Handling narrow and long metal parts in fast speed, short cycle time
- ◇ Handling metal sheet and aluminum plates without deformation
- ◇ Handling automotive stamping metal parts



Structure

- ◇ 1.5 Bellows structure
- ◇ Suction cup and fitting are one-piece structure



SZ
SP3
SUF
SAN
SAO
SOFA
STP
SFT
SFA
SBT
SEL
SBL
SBS
SFP
SEP
SXP
SGP
SGOP
STC
SFF
SOB
SOF
SDG
SFM
SOM
SEF
SDM
SPU
SEK
SHT
SDL
SPG
SFGT
SPD
SB
SBA
SF
SU
SP2P
SFA
SPD
SFF
SPC
SPJ
SPU
SH
SHB
SBB
SGP
SNP

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How to order

SOB 30×60 N - G3F

① ② ③ ④

① Series	② Size	③ Material & Hardness	④ Connection thread
SOB	30×60	N - NBR	G2F - G1/4 female thread
	40×80	HK - Extra high temp rubber	G3F - G3/8 female thread
	55×110	HD - High temp/mark free material	G2M - G1/4 male thread
	70×140		M10M - M10×1.5 male thread M14M - M14×1.5 male thread RA - Rectangular adapter

Selection

Model	Connection thread G2M	M10M	M14M	G2F	G3F	RA
SOB30×60N-□	SOB30×60N-G2M	SOB30×60N-M10M	SOB30×60N-M14M	SOB30×60N-G2F	SOB30×60N-G3F	SOB30×60N-RA
SOB40×80N-□	SOB40×80N-G2M	SOB40×80N-M10M	SOB40×80N-M14M	SOB40×80N-G2F	SOB40×80N-G3F	SOB40×80N-RA
SOB55×110N-□	SOB55×110N-G2M	SOB55×110N-M10M	SOB55×110N-M14M	SOB55×110N-G2F	SOB55×110N-G3F	SOB55×110N-RA
SOB70×140N-□	SOB70×140N-G2M	SOB70×140N-M10M	SOB70×140N-M14M	SOB70×140N-G2F	SOB70×140N-G3F	SOB70×140N-RA

Model	Connection thread G2M	G2F	G3F
SOB30×60HK-□	SOB30×60HK-G2M	SOB30×60HK-G2F	SOB30×60HK-G3F
SOB40×80HK-□	SOB40×80HK-G2M	SOB40×80HK-G2F	SOB40×80HK-G3F
SOB55×110HK-□	SOB55×110HK-G2M	SOB55×110HK-G2F	SOB55×110HK-G3F
SOB70×140HK-□	SOB70×140HK-G2M	SOB70×140HK-G2F	SOB70×140HK-G3F

Model	Connection thread G2M	G2F	G3F
SOB30×60HD-□	SOB30×60HD-G2M	SOB30×60HD-G2F	SOB30×60HD-G3F
SOB40×80HD-□	SOB40×80HD-G2M	SOB40×80HD-G2F	SOB40×80HD-G3F
SOB55×110HD-□	SOB55×110HD-G2M	SOB55×110HD-G2F	SOB55×110HD-G3F
SOB70×140HD-□	SOB70×140HD-G2M	SOB70×140HD-G2F	SOB70×140HD-G3F

Technical parameters

Model	Vertical pull-out force N	Lateral pull-out force N	Lateral pull-out force (Oily surface)N	Inner volume cm ³	Min.curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SOB30×60	53	60	50	8.7	25	26	6	1
SOB40×80	110	118	101	20	32	33	8	1
SOB55×110	197	200	183	50	50	75	8	1
SOB70×140	275	295	267	100	70	117	8	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

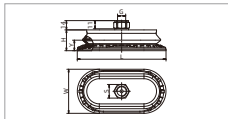
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Oval Suction Cup Special for Metal Sheet

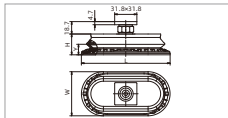
AIRBEST

Suction Cup

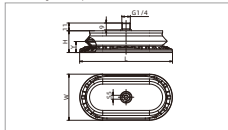
Dimensions(mm)



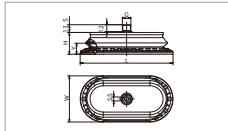
F - Female thread connection



RA - Rectangular adapter



M - Male thread connection



M - Male thread connection

○ Note: The dimensional tolerance conforms to GB/T16723.1-2002-1 M3 rubber product dimensional tolerance standard

Model/Size	L	W	H	G	S	Y
SOB30×60N-G2F	62	31	20	G1/4	17	6
SOB30×60N-G3F	62	31	20	G3/8	22	6
SOB40×80N-G2F	82	41	22.7	G1/4	17	8.8
SOB40×80N-G3F	82	41	22.7	G3/8	22	8.8
SOB55×110N-G2F	112	57	29	G1/4	17	12.5
SOB55×110N-G3F	112	57	29	G3/8	22	12.5
SOB70×140N-G2F	143	70.5	33	G1/4	17	17
SOB70×140N-G3F	143	70.5	33	G3/8	22	17

Model/Size	L	W	H	Y
SOB30×60N-RA	62	31	20	6
SOB40×80N-RA	82	41	22.7	8.8
SOB55×110N-RA	112	57	29	12.5
SOB70×140N-RA	143	70.5	33	17

Model/Size	L	W	H	Y
SOB30×60N-G2M	62	31	20	6
SOB40×80N-G2M	82	41	22.7	8.8
SOB55×110N-G2M	112	57	29	12.5
SOB70×140N-G2M	143	70.5	33	17

Model/Size	L	W	H	G	Y
SOB30×60N-M10M	62	31	20	M10×1.5	6
SOB30×60N-M14M	62	31	20	M14×1.5	6
SOB40×80N-M10M	82	41	22.7	M10×1.5	8.8
SOB40×80N-M14M	82	41	22.7	M14×1.5	8.8
SOB55×110N-M10M	112	57	29	M10×1.5	12.5
SOB55×110N-M14M	112	57	29	M14×1.5	12.5
SOB70×140N-M10M	143	70.5	33	M10×1.5	17
SOB70×140N-M14M	143	70.5	33	M14×1.5	17