SOB Series

Oval Suction Cup Special for Metal Sheet


METAL SHEET


LONG AND NARROW OBJECT


SLIPPING RESISTANCE


OILY SURFACE

RoHS

Features

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

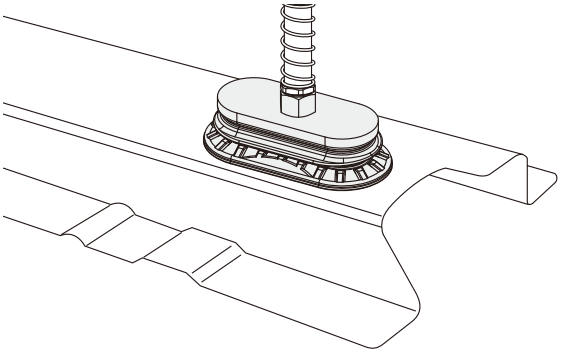


Advantages

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

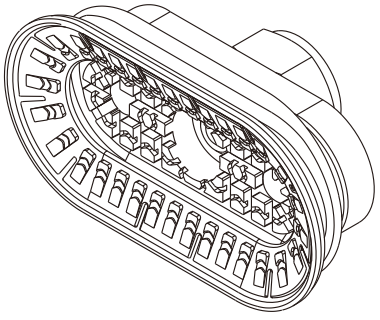
Applications

◇ 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



SOB Series

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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	60	G2F - G1/4 female thread
	40×80	HK - Extra high temp rubber	65	G3F - G3/8 female thread
	55×110	HD - High temp/mark free material	60	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

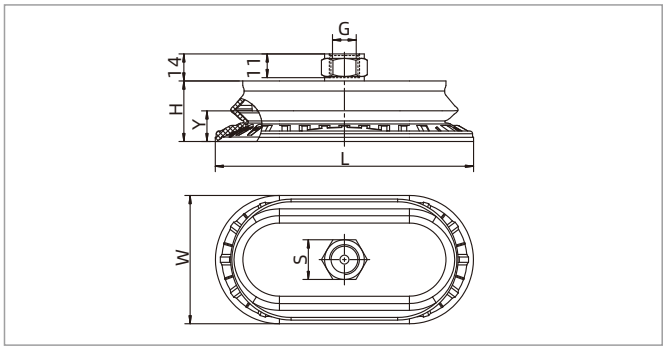
Model	Vertical pull-out force N	Lateral pull-out force N	Lateral pull-out force (Oily surface)N	Inner volume cm^3	Min.curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SOB30×60	53	60	50	8.7	25	26	6	1
SOB40×80	110	118	101	20	32	33	8	1
SOB55×110	197	200	183	50	50	75	8	1
SOB70×140	275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

SOB Series

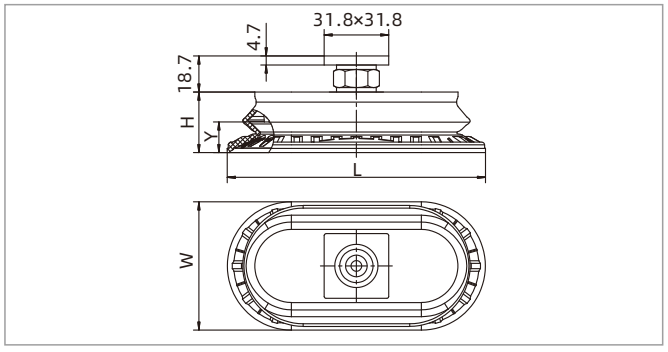
Oval Suction Cup Special for Metal Sheet

Dimensions(mm)



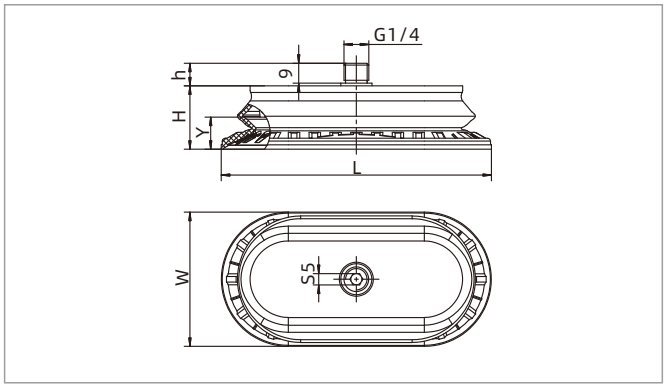
F - Female thread connection

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



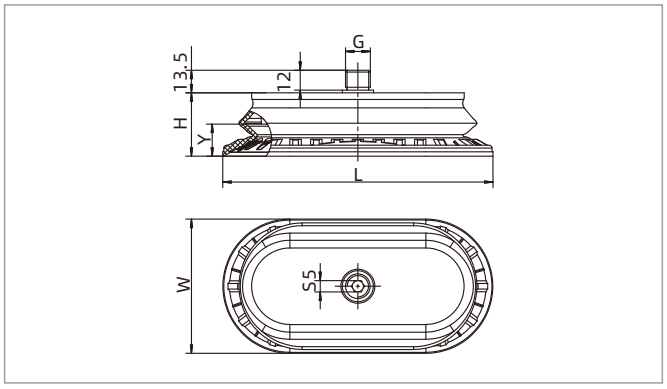
RA - Rectangular adapter

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



M - Male thread connection

Model/Size	L	W	H	h	Y
SOB30×60N-G2M	62	31	20	10.5	6
SOB40×80N-G2M	82	41	22.7	10.5	8.8
SOB55×110N-G2M	112	57	29	11	12.5
SOB70×140N-G2M	143	70.5	33	11	17



M - Male thread connection

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
SOB40×80-M10M	82	41	22.7	M10×1.5	8.8
SOB40×80N-M14M	82	41	22.7	M14×1.5	8.8
SOB55×110-M10M	112	57	29	M10×1.5	12.5
SOB55×110N-M14M	112	57	29	M14×1.5	12.5
SOB70×140-M10M	143	70.5	33	M10×1.5	17
SOB70×140N-M14M	143	70.5	33	M14×1.5	17

◇ Note: The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard