

### Features

- ◇ Various sizes, suitable for workpiece with different shapes and sizes
- ◇ Large inner support structure, protects the metal sheets from deformation and damage during handling process
- ◇ Slot structure efficiently increases the friction force between vacuum pad and workpiece in order to prevent the oily metal sheets from slipping during the process of handling
- ◇ Flat, oval vacuum pad is suitable for long and narrow workpieces
- ◇ 1.5 bellows structure has good sealing and buffer to workpiece with uneven surface
- ◇ Vacuum pads are available with various connection types



### Applications

- ◇ Car stamped steel
- ◇ Steel plates with oily surface
- ◇ Long and narrow metal sheet parts
- ◇ Handling normal sheet metal (in order to avoid deformation)

### Model

Model	Diameter(mm)	Material and Hardness	Connection thread
SOB	30 × 60 40 × 80 55 × 110 70 × 140	N-60(Orange)(N-NBR)	G1/4M (M-Male thread) G1/4F (F-Female thread) G3/8F M10M M14X1.5M RA Rectangular adapter

△SOB30X60N-60-G3/8F

### How to order

Model	G1/4M (Male thread)	G1/4F (Female thread)	G3/8F (Female thread)	M10M (Male thread)	M14X1.5M (Male thread)	RA Rectangular adapter
SOB30X60N-60	203.0660.0102	203.0660.1102	203.0660.1106	203.0660.0210	203.0660.0214	203.0660.0932
SOB40X80N-60	203.0860.0102	203.0860.1102	203.0860.1106	203.0860.0210	203.0860.0214	203.0860.0932
SOB55X110N-60	203.1160.0102	203.1160.1102	203.1160.1106	203.1160.0210	203.1160.0214	203.1160.0932
SOB70X140N-60	203.1460.0102	203.1460.1102	203.1460.1106	203.1460.0210	203.1460.0214	203.1460.0932

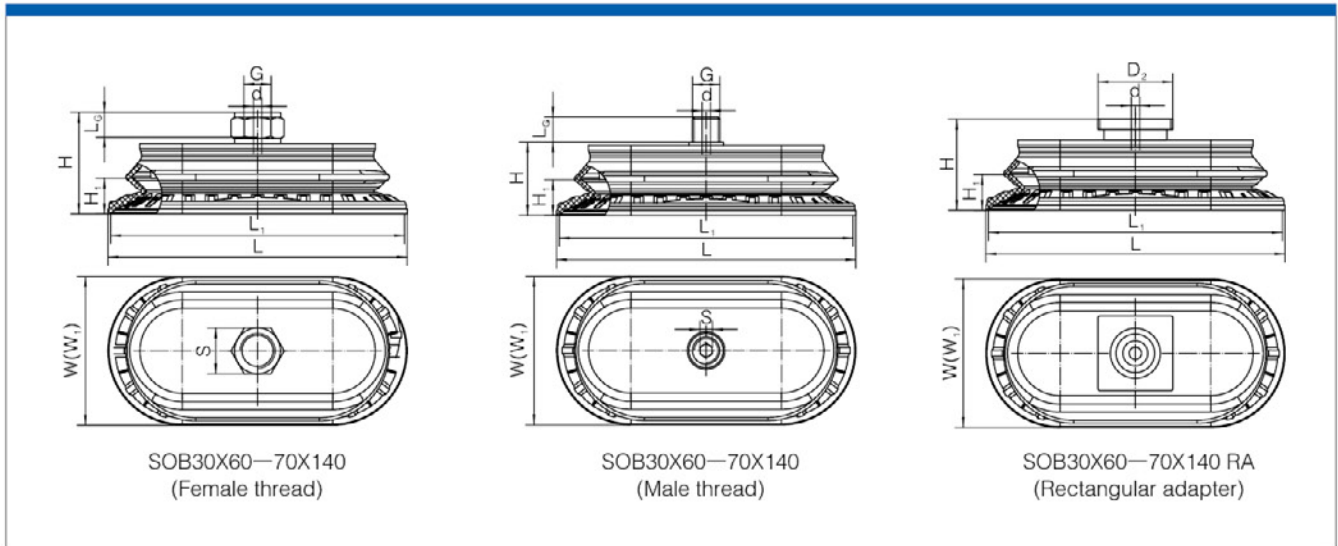
### Technical parameters

Model	Vertical pull-out force (N) -60kPa	Lateral pull-out force (N) -60kPa	Lateral pull-out force on oily surface (N) -60kPa	Inner volume (cm <sup>3</sup> )	Min. curve radius of workpiece (cm)	Recommended tube Diameter (mm)	Weight (g)
SOB30X60	53	60	50	8.7	25	4	26
SOB40X80	110	118	101	22	32	6	33
SOB55X110	197	200	183	57	48	6	75
SOB70X140	275	295	267	108	64	6	117

△ Workpiece is with smooth, dry surface, the above pull-out force datas don't include a safety factor. Values may change according to different workpiece surfaces.

- TXC
- TXM
- SNP
- SOP
- SB
- SBF
- SBOF
- SFT
- SBL
- SBLP
- SF
- SU
- SUF
- STC
- SFF
- SOB**
- SOF
- SOG
- SFP
- SBP
- SXP
- SGP
- SDL
- SD
- SH
- SHB
- AZP
- AZPT
- AZPR
- SAN
- SAO
- SAOT
- SAOR
- SPA
- SPC
- SPF
- SPJ
- SPJG
- SPS
- SPU
- SNT
- K
- Fittings for Vacuum Pads
- BH
- Bulkhead Connector
- Ball Joint

## Dimensions



Model \ Size (mm)	L	L <sub>1</sub>	W	W <sub>1</sub>	d	G	H	L <sub>g</sub>	D <sub>2</sub>	S	H <sub>1</sub>
SOB30X60N-60-G1/4F	62	60	32	30	6	G1/4F	34	11	--	17	6
SOB30X60N-60-G1/4M	62	60	32	30	6	G1/4M	21.5	12	--	5	6
SOB30X60N-60-G3/8F	62	60	32	30	6	G3/8F	34	11	--	22	6
SOB30X60N-60-M10M	62	60	32	30	4	M10M	21.5	12	--	5	6
SOB30X60N-60-M14M	62	60	32	30	6	M14X1.5M	21.5	12	--	5	6
SOB30X60N-60-RA	62	60	32	30	6	--	29	18.7	32	--	6
SOB40X80N-60-G1/4F	82	80	42	40	6	G1/4F	37	11	--	17	8.8
SOB40X80N-60-G1/4M	82	80	42	40	6	G1/4M	24.5	12	--	5	8.8
SOB40X80N-60-G3/8F	82	80	42	40	6	G3/8F	37	11	--	22	8.8
SOB40X80N-60-M10M	82	80	42	40	4	M10M	24.5	12	--	5	8.8
SOB40X80N-60-M14M	82	80	42	40	6	M14X1.5M	24.5	12	--	5	8.8
SOB40X80N-60-RA	82	80	42	40	6	--	42	18.7	32	--	8.8
SOB55X110N-60-G1/4F	112	110	57	55	6	G1/4F	43	11	--	17	12.5
SOB55X110N-60-G1/4M	112	110	57	55	6	G1/4M	30.5	12	--	5	12.5
SOB55X110N-60-G3/8F	112	110	57	55	6	G3/8F	43	11	--	22	12.5
SOB55X110N-60-M10M	112	110	57	55	4	M10M	30.5	12	--	5	12.5
SOB55X110N-60-M14M	112	110	57	55	6	M14X1.5M	30.5	12	--	5	12.5
SOB55X110N-60-RA	112	110	57	55	6	--	38	18.7	32	--	12.5
SOB70X140N-60-G1/4F	143	140	72	69	6	G1/4F	47.5	11	--	17	17
SOB70X140N-60-G1/4M	143	140	72	69	6	G1/4M	35	12	--	5	17
SOB70X140N-60-G3/8F	143	140	72	69	6	G3/8F	47.5	11	--	22	17
SOB70X140N-60-M10M	143	140	72	69	4	M10M	35	12	--	5	17
SOB70X140N-60-M14M	143	140	72	69	6	M14X1.5M	35	12	--	5	17
SOB70X140N-60-RA	143	140	72	69	6	--	42.5	18.7	32	--	17