

SFF Series

Flat Suction Cup Special for Sheet Metal



- SB
- SBA
- SBB
- SBF
- SBOF
- SFT
- STP
- SBL
- SBLP
- SF
- SU
- SUF
- SFG
- STC
- SFF**
- SFM
- SDM
- SOB
- SOF
- SOG
- SFP
- SBP
- SXP
- SGP
- SDL
- SH
- SHB
- SZ
- SAN
- SAO
- SPA
- SPC
- SPF
- SPJ
- SPU
- SNP
- SOP

Features

- ◇ Large inner support structure can protect the sheet metal 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 handling process.
- ◇ 2 hardness of material for option(45 & 60), suitable for sheet metal with different thickness and shapes.

Applications

- ◇ Car stamped steel plate, oily steel plate
- ◇ Glass, stamping parts, plywood
- ◇ Handling normal sheet metal(to avoid deformation)

How to order

SFF 30 N - G2F

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
SFF	30 - φ30mm	N - NBR 60	G2F - G1/4 Female thread
	40 - φ40mm	NG - NBR 45	G2M - G1/4 Male thread
	50 - φ50mm		G3F - G3/8 Female thread
	60 - φ60mm		M10M - M10 Male thread
	80 - φ80mm		M14M - M14×1.5 Male thread
	100 - φ100mm		RA - Rectangular adapter
	125 - φ125mm		

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Selection

Model/ Connection thread	G2M	G2F	G3F	M10M	M14M	RA
SFF30 - 40	○	●	—	○	○	○
SFF50 - 125	○	—	●	○	○	○

◇Note: "●"- standard, in stock. "○"-selective,no stock."—"-unavailable.

Technical parameters

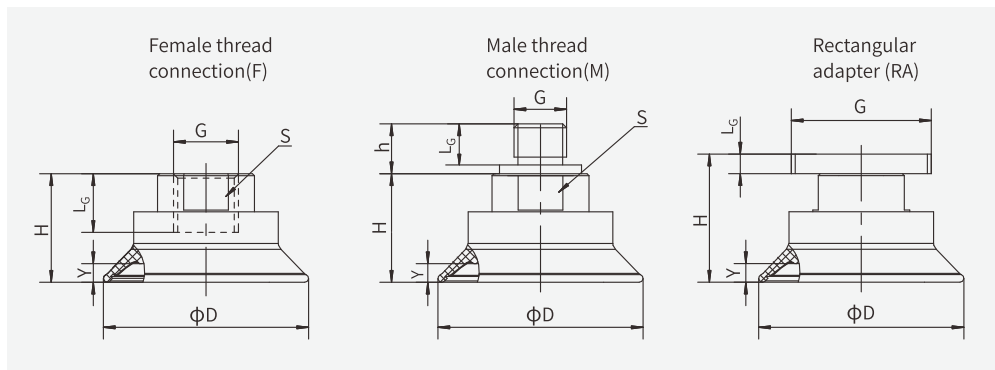
Model	Vertical pull-out force (N)	Lateral pull-out force (N)	Lateral pull-out force N(oily surface)	Inner volume (cm3)	Min. curve radius of workpiece (mm)	Recommended hose dia. (mm)	Weight (g)
SFF30	45	35	33	1.6	35	6	11
SFF40	72	54	51	3.5	47.5	6	13
SFF50	112	90	86	7.5	70	8	20
SFF60	145	102	93	12.6	81	8	26
SFF80	288	212	190	35	11	8	43
SFF100	445	322	308	60	141	8	57
SFF125	660	475	400	115	165	10	145

◇ Note: Vacuum level is -60kPa, workpiece surface is smooth and clean. The above pull-out force are specified without any safety factor. The value will change according to different surface conditions of workpiece

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Dimensions (mm)



Model/ Size	D	H	G	L _c	h	S	Y
SFF30-G2M	32	20	G1/4	12	13.5	16	2.7
G2F		20	G1/4	11	—	16	
M10M		20	M10	12	13.5	16	
M14M		20	M14×1.5	12	13.5	16	
RA		24.7	□32	4.7	—	—	
SFF40-G2M	42	22	G1/4	12	13.5	17	3.7
G2F		22	G1/4	11	—	17	
M10M		22	M10	12	13.5	17	
M14M		22	M14×1.5	12	13.5	17	
RA		26.7	□32	4.7	—	—	
SFF50-G2M	52	28	G1/4	12	13.5	22	4.7
G3F		28	G3/8	13	—	22	
M10M		28	M10	12	13.5	22	
M14M		28	M14×1.5	12	13.5	22	
RA		32.7	□32	4.7	—	—	
SFF60-G2M	62.5	31	G1/4	12	13.5	22	6
G3F		31	G3/8	13	—	22	
M10M		31	M10	12	13.5	22	
M14M		31	M14×1.5	12	13.5	22	
RA		35.7	□32	13	—	22	
SFF80-G2M	82	34	G1/4	12	13.5	22	6
G3F		34	G3/8	13	—	22	
M10M		34	M10	12	13.5	22	
M14M		34	M14×1.5	12	13.5	22	
RA		38.7	□32	13	—	22	
SFF100-G2M	103	36	G1/4	12	13.5	22	9.2
G3F		36	G3/8	13	—	22	
M10M		36	M10	12	13.5	22	
M14M		36	M14×1.5	12	13.5	22	
RA		40.7	□32	4.7	—	—	
SFF125-G2M	128	43	G1/4	12	13.5	22	12.5
G3F		43	G3/8	13	—	22	
M10M		43	M10	12	13.5	22	
M14M		43	M14×1.5	12	13.5	22	
RA		47.7	□32	4.7	—	—	

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

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