

Features

- ◇ Large inner support structure protects the metal sheet from deformation and damage during the handling process.
- ◇ Slot structure efficiently improves the friction force between suction cup and workpiece in order to prevent the oily metal sheet from slipping during the handling process.
- ◇ Oval suction cup is suitable for long and narrow workpieces.
- ◇ 2 different hardness of material for option(45 & 60), suitable for metal sheet with different thickness and shapes.



Applications

- ◇ Car stamped steel plate, oily steel plate
- ◇ Long and narrow workpiece

How to order

SOF 16×50 N – G2F

① ② ③ ④

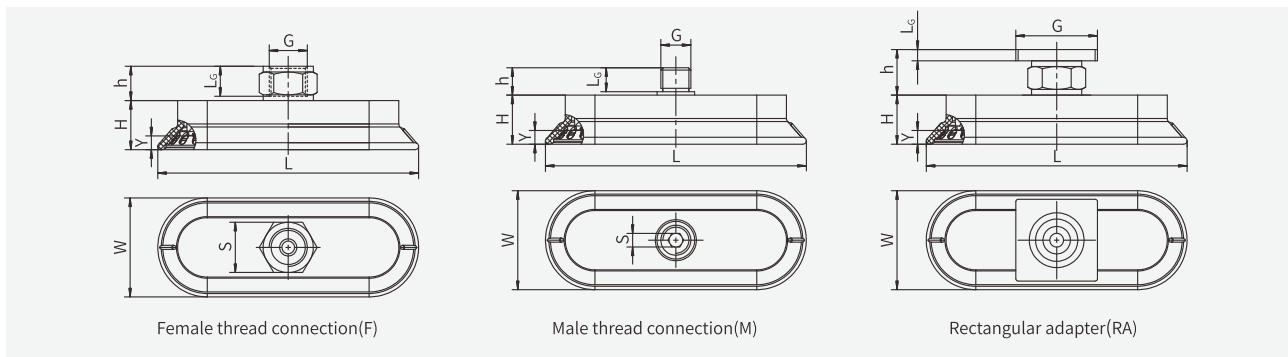
① Series	② Diameter	③ Material & Hardness	④ Connection thread
SOF	16×50 30×90 50×100 20×80 40×80 60×120 23×60 40×110 70×140	N – NBR 60 NG – NBR 45	G2F – G1/4 Female thread M10M – M10 Male thread G2M – G1/4 Male thread M14M – M14×1.5 Male thread G3F – G3/8 Female thread RA – Rectangular adapter

Technical parameters

Model	Vertical Pull-out force(N)	Lateral pull-out force (N)	Lateral pull-out force(N) (oily surface)	Inner volume (cm ³)	Min. curve radius of workpiece (mm)	Recommended hose diameter (mm)	Weight (g)
SOF16×50	33	24	12	2	8	4	17
SOF20×80	78	38	35	5	25	4	23
SOF23×60	57	37	33	3	20	4	29
SOF30×90	125	77	60	10	30	4	24
SOF40×80	141	110	100	11	50	6	43
SOF40×110	200	188	118	25	35	6	47
SOF50×100	217	181	121	20	75	6	56
SOF60×120	312	254	170	35	75	6	70
SOF70×140	445	344	230	52	90	8	77

◇ Note: Testing vacuum level: -60kPa. Testing Workpiece: 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.

Dimensions(mm)



Dimensions(mm)

Model/Size	L	W	H	G	L _g	h	S	Y
SOF16×50-G2F	50	16	19.5	G1/4	11	14	17	3
SOF16×50-G2M	50	16	19.5	G1/4	12	13.5	5	3
SOF16×50-G3F	50	16	19.5	G3/8	11	14	22	3
SOF16×50-M10M	50	16	19.5	M10	12	13.5	5	3
SOF16×50-M14M	50	16	19.5	M14×1.5	12	13.5	5	3
SOF16×50-RA	50	16	19.5	□32	4.7	18.7	—	3
SOF20×80-G2F	84	24	15.5	G1/4	11	14	17	5
SOF20×80-G2M	84	24	15.5	G1/4	12	13.5	5	5
SOF20×80-G3F	84	24	15.5	G3/8	11	14	22	5
SOF20×80-M10M	84	24	15.5	M10	12	13.5	5	5
SOF20×80-M14M	84	24	15.5	M14×1.5	12	13.5	5	5
SOF20×80-RA	84	24	15.5	□32	4.7	18.7	—	5
SOF23×60-G2F	61.5	22.5	12	G1/4	11	14	17	3
SOF23×60-G2M	61.5	22.5	12	G1/4	12	13.5	5	3
SOF23×60-G3F	61.5	22.5	12	G3/8	11	14	22	3
SOF23×60-M10M	61.5	22.5	12	M10	12	13.5	5	3
SOF23×60-M14M	61.5	22.5	12	M14×1.5	12	13.5	5	3
SOF23×60-RA	61.5	22.5	12	□32	4.7	18.7	—	3
SOF30×90-G2F	93	33	16	G1/4	11	14	17	5
SOF30×90-G2M	93	33	16	G1/4	12	13.5	5	5
SOF30×90-G3F	93	33	16	G3/8	11	14	22	5
SOF30×90-M10M	93	33	16	M10	12	13.5	5	5
SOF30×90-M14M	93	33	16	M14×1.5	12	13.5	5	5
SOF30×90-RA	93	33	16	□32	4.7	18.7	—	5
SOF40×80-G2F	82	43	14	G1/4	11	14	17	4
SOF40×80-G2M	82	43	14	G1/4	12	13.5	5	4
SOF40×80-G3F	82	43	14	G3/8	11	14	22	4
SOF40×80-M10M	82	43	14	M10	12	13.5	5	4
SOF40×80-M14M	82	43	14	M14×1.5	12	13.5	5	4
SOF40×80-RA	82	43	14	□32	4.7	18.7	—	4
SOF40×110-G2F	113	43	21.5	G1/4	11	14	17	6
SOF40×110-G2M	113	43	21.5	G1/4	12	13.5	5	6
SOF40×110-G3F	113	43	21.5	G3/8	11	14	22	6
SOF40×110-M10M	113	43	21.5	M10	12	13.5	5	6
SOF40×110-M14M	113	43	21.5	M14×1.5	12	13.5	5	6
SOF40×110-RA	113	43	21.5	□32	4.7	18.7	—	6
SOF50×100-G2F	102	49	16	G1/4	11	14	17	5
SOF50×100-G2M	102	49	16	G1/4	12	13.5	5	5
SOF50×100-G3F	102	49	16	G3/8	11	14	22	5
SOF50×100-M10M	102	49	16	M10	12	13.5	5	5
SOF50×100-M14M	102	49	16	M14×1.5	12	13.5	5	5
SOF50×100-RA	102	49	16	□32	4.7	18.7	—	5
SOF60×120-G2F	123	65	18	G1/4	11	14	17	6
SOF60×120-G2M	123	65	18	G1/4	12	13.5	5	6
SOF60×120-G3F	123	65	18	G3/8	11	14	22	6
SOF60×120-M10M	123	65	18	M10	12	13.5	5	6
SOF60×120-M14M	123	65	18	M14×1.5	12	13.5	5	6
SOF60×120-RA	123	65	18	□32	4.7	18.7	—	6
SOF70×140-G2F	141	67.5	19	G1/4	11	14	17	7
SOF70×140-G2M	141	67.5	19	G1/4	12	13.5	5	7
SOF70×140-G3F	141	67.5	19	G3/8	11	14	22	7
SOF70×140-M10M	141	67.5	19	M10	12	13.5	5	7
SOF70×140-M14M	141	67.5	19	M14×1.5	12	13.5	5	7
SOF70×140-RA	141	67.5	19	□32	4.7	18.7	—	7

◇ Note: Please refer to page 22 for mounting parts selection.