

SFF Series

Flat Suction Cup Speical for Metal Sheet



AIRBEST

RoHS

Suction Cup

Features

- ◇ Internal large area support structure
- ◇ Various sizes are available

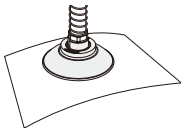
Advantages

- ◇ Effectively enhance the friction force between suction cups and workpieces
- ◇ 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



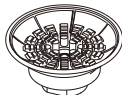
Applications

- ◇ Handling of oily metal sheet
- ◇ Handling metal sheet and aluminum plates without deformation
- ◇ Used for loading and unloading of material during CNC or machine tool processing
- ◇ Handling curved metal sheets
- ◇ Used in automotive stamping metal parts handling systems



Structure

- ◇ Suction cup and fitting are one-piece structure



SZ
SP3
SUF
SAN
SAO
SOFA
STP
SFT
SFA
SST
SEL
SLP
SES
SFP
SEP
SXP
SGP
SGOF
STC
SFF
SOB
SOF
SOG
SFM
SOM
SEP
SOM
SPU
SEK
SHT
SDL
SPG
SFGT
SPD
SB
SBA
SF
SU
SP2P
SPA
SPD
SPF
SPC
SPJ
SPU
SH
SHB
SBB
SGP
SNP

How to order

SFF 50 N - G3F

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
SFF	30 - ϕ 30mm	N - NBR	50 G2F - G1/4 female thread
	40 - ϕ 40mm	NG - NBR	45 G3F - G3/8 female thread
	50 - ϕ 50mm	HK - Extra high temp rubber	65 G2M - G1/4 male thread
	60 - ϕ 60mm	HD - High temp/mark free material	60 M10M - M10x1.5 male thread
	80 - ϕ 80mm		M14M - M14x1.5 male thread
	100 - ϕ 100mm		RA - Rectangular adapter
	125 - ϕ 125mm		

Selection

Model	Connection thread					
	G2M	M10M	M14M	G2F	G3F	RA
SFF30N-□	SFF30N-G2M	SFF30N-M10M	SFF30N-M14M	SFF30N-G2F	SFF30N-G3F	SFF30N-RA
SFF40N-□	SFF40N-G2M	SFF40N-M10M	SFF40N-M14M	SFF40N-G2F	SFF40N-G3F	SFF40N-RA
SFF50N-□	SFF50N-G2M	SFF50N-M10M	SFF50N-M14M	SFF50N-G2F	SFF50N-G3F	SFF50N-RA
SFF60N-□	SFF60N-G2M	SFF60N-M10M	SFF60N-M14M	SFF60N-G2F	SFF60N-G3F	SFF60N-RA
SFF80N-□	SFF80N-G2M	SFF80N-M10M	SFF80N-M14M	SFF80N-G2F	SFF80N-G3F	SFF80N-RA
SFF100N-□	SFF100N-G2M	SFF100N-M10M	SFF100N-M14M	SFF100N-G2F	SFF100N-G3F	SFF100N-RA
SFF125N-□	SFF125N-G2M	SFF125N-M10M	SFF125N-M14M	SFF125N-G2F	SFF125N-G3F	SFF125N-RA

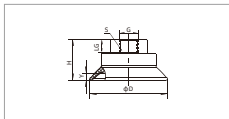
Model	Connection thread					
	G2M	M10M	M14M	G2F	G3F	RA
SFF30NG-□	SFF30NG-G2M	SFF30NG-M10M	SFF30NG-M14M	SFF30NG-G2F	SFF30NG-G3F	SFF30NG-RA
SFF40NG-□	SFF40NG-G2M	SFF40NG-M10M	SFF40NG-M14M	SFF40NG-G2F	SFF40NG-G3F	SFF40NG-RA
SFF50NG-□	SFF50NG-G2M	SFF50NG-M10M	SFF50NG-M14M	SFF50NG-G2F	SFF50NG-G3F	SFF50NG-RA
SFF60NG-□	SFF60NG-G2M	SFF60NG-M10M	SFF60NG-M14M	SFF60NG-G2F	SFF60NG-G3F	SFF60NG-RA
SFF80NG-□	SFF80NG-G2M	SFF80NG-M10M	SFF80NG-M14M	SFF80NG-G2F	SFF80NG-G3F	SFF80NG-RA
SFF100NG-□	SFF100NG-G2M	SFF100NG-M10M	SFF100NG-M14M	SFF100NG-G2F	SFF100NG-G3F	SFF100NG-RA
SFF125NG-□	SFF125NG-G2M	SFF125NG-M10M	SFF125NG-M14M	SFF125NG-G2F	SFF125NG-G3F	SFF125NG-RA

Model	Connection thread			Model	Connection thread		
	G2M	G2F	G3F		G2M	G2F	G3F
SFF30HK-□	SFF30HK-G2M	SFF30HK-G2F	SFF30HK-G3F	SFF30HD-□	SFF30HD-G2M	SFF30HD-G2F	SFF30HD-G3F
SFF40HK-□	SFF40HK-G2M	SFF40HK-G2F	SFF40HK-G3F	SFF40HD-□	SFF40HD-G2M	SFF40HD-G2F	SFF40HD-G3F
SFF50HK-□	SFF50HK-G2M	SFF50HK-G2F	SFF50HK-G3F	SFF50HD-□	SFF50HD-G2M	SFF50HD-G2F	SFF50HD-G3F
SFF60HK-□	SFF60HK-G2M	SFF60HK-G2F	SFF60HK-G3F	SFF60HD-□	SFF60HD-G2M	SFF60HD-G2F	SFF60HD-G3F
SFF80HK-□	SFF80HK-G2M	SFF80HK-G2F	SFF80HK-G3F	SFF80HD-□	SFF80HD-G2M	SFF80HD-G2F	SFF80HD-G3F
SFF100HK-□	SFF100HK-G2M	SFF100HK-G2F	SFF100HK-G3F	SFF100HD-□	SFF100HD-G2M	SFF100HD-G2F	SFF100HD-G3F
SFF125HK-□	SFF125HK-G2M	SFF125HK-G2F	SFF125HK-G3F	SFF125HD-□	SFF125HD-G2M	SFF125HD-G2F	SFF125HD-G3F

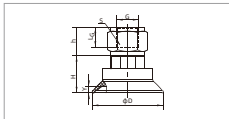
Technical parameters

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
SFF30	45	35	33	1.6	35	11	6	1
SFF40	72	54	51	3.5	47.5	13	6	1
SFF50	112	90	86	7.5	70	20	8	1
SFF60	145	102	93	12.6	81	26	8	1
SFF80	288	212	190	35	115	43	8	1
SFF100	445	322	308	60	141	57	8	1
SFF125	660	475	400	115	165	145	10	1

Dimensions(mm)



F - Female thread connection

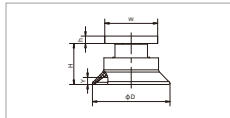


F - Female thread connection

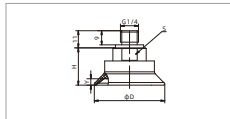
Model/Size	D	H	G	LG	S	Y
SFF30□-G2F	32	19.5	G1/4	11	17	2.7
SFF40□-G2F	42	22	G1/4	11	17	3.4
SFF50□-G3F	52	28	G3/8	13	22	4.7
SFF60□-G3F	62.5	31	G3/8	13	22	6
SFF80□-G3F	83	34.5	G3/8	13	22	6
SFF100□-G3F	102	36.5	G3/8	13	22	9.2
SFF125□-G3F	128	43	G3/8	13	22	12.5

Model/Size	D	H	G	h	LG	S	Y
SFF30□-G3F	32	19.5	G3/8	14	11	22	2.7
SFF40□-G3F	42	22	G3/8	14	11	22	3.4
SFF50□-G2F	52	28	G1/4	14	11	22	4.7
SFF60□-G2F	62.5	31	G1/4	14	11	22	6
SFF80□-G2F	83	34.5	G1/4	14	11	22	6
SFF100□-G2F	102	36.5	G1/4	14	11	22	9.2
SFF125□-G2F	128	43	G1/4	14	11	22	12.5

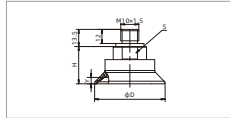
Dimensions(mm)



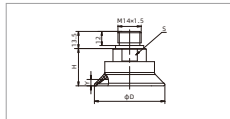
RA - Rectangular adapter



M - Male thread connection



M - Male thread connection



M - Male thread connection

Model/Size	D	H	W	h	Y
SFF30□-RA	32	19.5	31.8×31.8	4.7	2.7
SFF40□-RA	42	22	31.8×31.8	4.7	3.7
SFF50□-RA	52	28	31.8×31.8	4.7	4.7
SFF60□-RA	62.5	31	31.8×31.8	4.7	6
SFF80□-RA	83	34.5	31.8×31.8	4.7	6
SFF100□-RA	102	36.5	31.8×31.8	4.7	9.2
SFF125□-RA	128	43	31.8×31.8	4.7	12.5

Model/Size	D	H	s	Y
SFF30□-G2M	32	19.5	17	2.7
SFF40□-G2M	42	22	17	3.7
SFF50□-G2M	52	28	22	4.7
SFF60□-G2M	62.5	31	22	6
SFF80□-G2M	83	34.5	22	6
SFF100□-G2M	102	36.5	22	9.2
SFF125□-G2M	128	43	22	12.5

Model/Size	D	H	s	Y
SFF30□-M10M	32	19.5	17	2.7
SFF40□-M10M	42	22	17	3.7
SFF50□-M10M	52	28	22	4.7
SFF60□-M10M	62.5	31	22	6
SFF80□-M10M	83	34.5	22	6
SFF100□-M10M	102	36.5	22	9.2
SFF125□-M10M	128	43	22	12.5

Model/Size	D	H	s	Y
SFF30□-M14M	32	19.5	17	2.7
SFF40□-M14M	42	22	17	3.7
SFF50□-M14M	52	28	22	4.7
SFF60□-M14M	62.5	31	22	6
SFF80□-M14M	83	34.5	22	6
SFF100□-M14M	102	36.5	22	9.2
SFF125□-M14M	128	43	22	12.5

○ Note: The dimensional tolerance conforms to GB/T6723-2002-1 M3 rubber product dimensional tolerance standard