

SFM Series

Flat Suction Cup Special for Oily Metal Sheet

AIRBEST



METAL
SHEET



SLIPPING
RESISTANCE



CURVED
SURFACE



OILY
SURFACE



LONG
LIFETIME

RoHS

Suction Cup

Features

- Large compressed stroke, good flexibility
- PU material
- Internal large area support structure
- Various sizes are available

Advantages

- Easy to fit workpieces with different shapes of surfaces
- Long lifetime, and wear resistance, ozone resistance and oil resistance are excellent
- Effectively enhance friction force between suction cups and workpieces
- Suitable for workpieces with different sizes and shapes



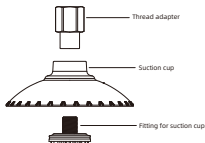
Applications

- Handling of oily metal sheet
- Handling curved metal sheet
- Handling automotive stamping metal parts



Structure

- Split structure design, wearing parts can be replaced separately



SZ
SP3
SUF
SAN
SAO
SOFA
STP
SFT
SFA
SBT
SEL
SBLP
SBS
SFP
SEP
SXP
SGP
SGCP
STC
SFF
SOB
SOF
SOG
SFM
SOM
SBP
SDM
SPU
SFK
SHT
SDL
SPG
SFGT
SPD
SB
SBA
SF
SU
SP2P
SPA
SPD
SFF
SPC
SPJ
SPU
SH
SHB
SBB
SOP
SNP

How to order

SFM 50 U - G3F

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
SFM	30 - ϕ 30mm 40 - ϕ 40mm 50 - ϕ 50mm 60 - ϕ 60mm 80 - ϕ 80mm 100 - ϕ 100mm 120 - ϕ 120mm	U - PU 70	Nil - Suction cup only G1F - G1/8 female thread G2F - G1/4 female thread G3F - G3/8 female thread G2M - G1/4 male thread M10M - M10x1.5 male thread M14M - M14x1.5 male thread RA - Rectangular adapter

Selection

Model	Connection thread G2M	M10M	M14M	G1F	G2F	G3F	RA
SFM30U	-	SFM30U-M10M	-	SFM30U-G1F	-	-	SFM30U-RA
SFM40U	-	SFM40U-M10M	-	SFM40U-G1F	-	-	SFM40U-RA
SFM50U	SFM50U-G2M	SFM50U-M10M	SFM50U-M14M	-	SFM50U-G2F	SFM50U-G3F	SFM50U-RA
SFM60U	SFM60U-G2M	SFM60U-M10M	SFM60U-M14M	-	SFM60U-G2F	SFM60U-G3F	SFM60U-RA
SFM80U	SFM80U-G2M	SFM80U-M10M	SFM80U-M14M	-	SFM80U-G2F	SFM80U-G3F	SFM80U-RA
SFM100U	SFM100U-G2M	SFM100U-M10M	SFM100U-M14M	-	SFM100U-G2F	SFM100U-G3F	SFM100U-RA
SFM120U	SFM120U-G2M	SFM120U-M10M	SFM120U-M14M	-	SFM120U-G2F	SFM120U-G3F	SFM120U-RA

Technical parameters

Model	Pull-out force N	Inner volume cm ³	Min. curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SFM30	45	4.5	25	3.5	6	1
SFM40	70	8.5	30	5.0	6	1
SFM50	112	18.6	35	8.5	8	1
SFM60	150	26	40	11	8	1
SFM80	285	56	60	21	8	1
SFM100	420	105	70	35	10	1
SFM120	580	153	90	55	10	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.

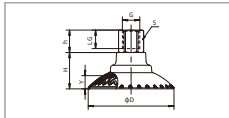
SFM Series

Flat Suction Cup Special for Oily Metal Sheet

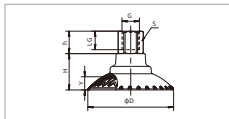
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Suction Cup

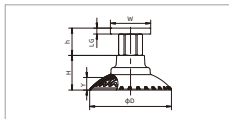
Dimensions(mm)



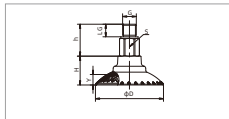
F - Female thread connection



F - Female thread connection



RA - Rectangular adapter



M - Male thread connection

Model/Size	D	H	G	h	LG	S	Y
SFM30U-G1F	34	17.5	G1/8	14	10	14	4
SFM40U-G1F	43.5	20	G1/8	14	10	14	6.3
SFM50U-G2F	55	25	G1/4	17	12	17	7.8
SFM60U-G2F	65	27.5	G1/4	17	12	17	10
SFM80U-G2F	85	30	G1/4	17	12	17	13
SFM100U-G2F	105.5	37	G1/4	17	12	17	15.5
SFM120U-G2F	123	41	G1/4	17	12	17	18.5

Model/Size	D	H	G	h	LG	S	Y
SFM50U-G3F	55	25	G3/8	17	12	22	7.8
SFM60U-G3F	65	27.5	G3/8	17	12	22	10
SFM80U-G3F	85	30	G3/8	17	12	22	13
SFM100U-G3F	105.5	37	G3/8	17	12	22	15.5
SFM120U-G3F	123	41	G3/8	17	12	22	18.5

Model/Size	D	H	w	h	LG	Y
SFM30U-RA	34	17.5	31.8×31.8	21.7	4.7	4
SFM40U-RA	43.5	20	31.8×31.8	21.7	4.7	6.3
SFM50U-RA	55	25	31.8×31.8	21.7	4.7	7.8
SFM60U-RA	65	27.5	31.8×31.8	21.7	4.7	10
SFM80U-RA	85	30	31.8×31.8	21.7	4.7	13
SFM100U-RA	105.5	37	31.8×31.8	21.7	4.7	15.5
SFM120U-RA	123	41	31.8×31.8	21.7	4.7	18.5

Model/Size	D	H	G	h	LG	S	Y
SFM50U-G2M	55	25	G1/4	28	9	17	7.8
SFM60U-G2M	65	27.5	G1/4	28	9	17	10
SFM80U-G2M	85	30	G1/4	28	9	17	13
SFM100U-G2M	105.5	37	G1/4	28	9	17	15.5
SFM120U-G2M	123	41	G1/4	28	9	17	18.5

SP2

SP3

SUF

SAN

SAO

SOFA

STP

SFT

SFA

SBT

SBL

SBLP

SBS

SFP

SBP

SXP

SGP

SGOF

STC

SFF

SGB

SGF

SGG

SFM

SOM

SFP

SOM

SFU

SFK

SHT

SOL

SFG

SFGT

SFD

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SP2P

SFA

SFD

SFF

SPC

SPJ

SPU

SH

SHB

SBB

SOP

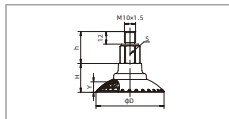
SNP

SFM Series

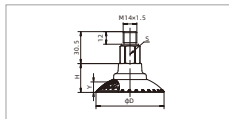
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Dimensions(mm)



M - Male thread connection



M - Male thread connection

○ Note: The dimensional tolerance conforms to GB16723-2002-1 M3 rubber product dimensional tolerance standard

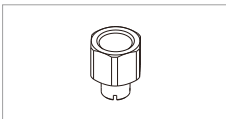
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SFM50U-M10M	55	25	30.5	17	7.8
SFM60U-M10M	65	27.5	30.5	17	10
SFM80U-M10M	85	30	30.5	17	13
SFM100U-M10M	105.5	37	30.5	17	15.5
SFM120U-M10M	123	41	30.5	17	18.5

Model/Size	D	H	h	S	Y
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SFM60U-M14M	65	27.5	30.5	17	10
SFM80U-M14M	85	30	30.5	17	13
SFM100U-M14M	105.5	37	30.5	17	15.5
SFM120U-M14M	123	41	30.5	17	18.5

Mounting parts



PJS - Fitting for suction cup



PJT - Thread adapter

Item	Model	Applicable suction cup
Fitting for suction cup	PJS-MBM-SFM40	SFM30,40
	PJS-G1M-SFM80	SFM50,60,80
	PJS-G1M-SFM120	SFM100,120
Thread adapter	PJT-MBF-G1F	SFM30,40
	PJT-G1F-G2F	SFM50,60,80,100,120
	PJT-G1F-G3F	SFM50,60,80,100,120