

MF Flat suction cup for packaging

Wear-Resistant Flat Suction Cup for Carton Handling



Application

- The circular flat suction cup features a reinforced support structure, strengthening the body. With a small internal volume and soft sealing lip, it is ideal for handling corrugated packaging, as well as thin metal sheets and glass.

Highlights

- Flexible and well-fitting sealing lip
- Reinforced suction cup body
- Suction cup surface with a reinforced support structure
- Durable wear-resistant material

Advantages

- Excellent sealing performance for carton and corrugated packaging handling
- High suction cup stability
- Maximum effective diameter for stronger suction
- Superior wear resistance with hybrid rubber material, lasting more than three times longer than SI and NBR

Ordering Guide

MF — 30

— G1/8-AG — F

Suction Cup Diameter

Code	Diameter
10	Ø 10.5 mm
15	Ø 16.4 mm
20	Ø 21.4 mm
25	Ø 26.4 mm
30	Ø 31.4 mm
40	Ø 41.4 mm
50	Ø 51.4 mm
60	Ø 61.2 mm

Connector Thread

Code	Thread
None	Without suction cup connector
M5-AG	M5 External Thread
M5-IG	M5 Internal Thread
G1/8-AG	G1/8 External Straight Thread
G1/8-IG	G1/8 Internal Straight Thread
G1/4-AG	G1/4 External Straight Thread
G1/4-IG	G1/4 Internal Straight Thread

Filter

Code
None
F

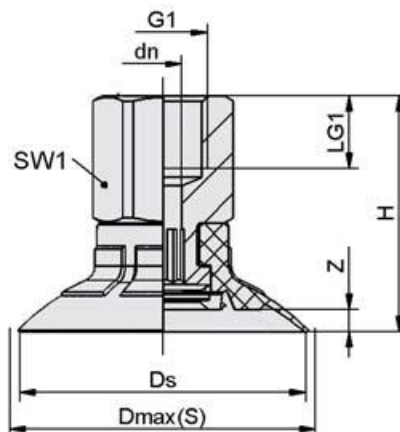
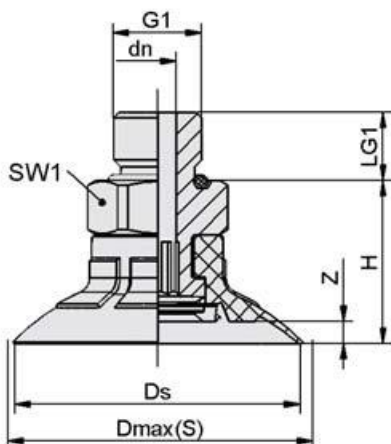
Description
Without filter
With filter

Technical Parameters

Model	Suction Force [N] ^②	Breakaway Force [N]	Lateral Force [N]	Internal Volume [cm ³]	Minimum Workpiece Curvature Radius (Convex)[mm]	Recommended Vacuum Hose Inner Diameter(Hose Length: Maximum 2m)[mm]	Compatible Suction Cup Connector
MF -10-...	4.4	5.2	3.5	0.3	8	4	SC 030
MF -15-...	9.8	11.0	7.9	0.8	13	4	SC 040
MF -20-...	16.0	19.2	10.5	1.1	25	4	SC 040
MF -25-...	22.7	27.1	17.0	1.7	40	4	SC 040
MF -30-...	29.5	35.3	22.5	2.5	45	6	SC 040
MF -40-...	49.5	62.5	25.0	5.1	75	6	SC 050
MF -50-...	74.2	87.4	44.0	8.0	100	6	SC 050
MF -60-...	107.0	135.0	65.0	12.7	75	6	SC 050

The specified suction force above is the theoretical value at a vacuum level of -0.6 bar, applicable to smooth and dry workpieces, and does include a safety factor.

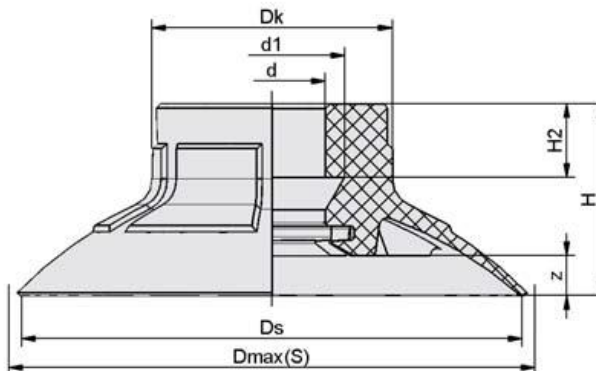
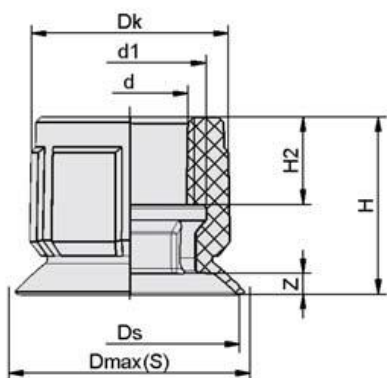
Structural Parameters



MF-...-AG

MF-...-IG

Model	Size[mm] ⁽⁴⁾		Ds	G1	H	LG1	SW1	Z Stroke	Weight [g]
	dn	Dmax(S)							
MF-10-M5-AG	1.8	12.0	10.5	M5-M	14.0	4.7	8	1.0	2
MF-10-M5-IG	3.1	12.0	10.5	M5-F	19.0	5.5	8	1.0	2
MF-15-G1/8-AG	4.1	18.5	16.4	G1/8-M	16.0	7.5	14	1.5	5
MF-15-G1/8-IG	4.1	18.5	16.4	G1/8-F	24.0	8.0	14	1.5	6
MF-20-G1/8-AG	4.1	23.3	21.4	G1/8-M	17.0	7.5	14	2.0	6
MF-20-G1/8-IG	4.1	23.3	21.4	G1/8-F	25.0	8.0	14	2.0	7
MF-25-G1/8-AG	4.1	28.0	26.4	G1/8-M	17.0	7.5	14	2.0	6
MF-25-G1/8-IG	4.1	28.0	26.4	G1/8-F	25.0	8.0	14	2.0	7
MF-30-G1/8-AG	4.1	33.6	31.4	G1/8-M	18.0	7.5	14	2.5	7
MF-30-G1/8-IG	4.1	33.6	31.4	G1/8-F	26.0	8.0	14	2.5	8
MF-40-G1/4-AG	6.1	43.7	41.4	G1/4-M	22.2	10.0	17	2.5	18
MF-40-G1/4-IG	6.1	43.7	41.4	G1/4-F	32.2	12.0	17	2.5	19
MF-50-G1/4-AG	6.1	53.9	51.4	G1/4-M	23.2	10.0	17	3.5	19
MF-50-G1/4-IG	6.1	53.9	51.4	G1/4-F	33.2	12.0	17	3.5	20
MF-60-G1/4-AG	6.1	65.0	61.2	G1/4-M	25.2	10.0	17	5.1	22
MF-60-G1/4-IG	6.1	65.0	61.2	G1/4-F	35.2	12.0	17	5.1	23



MF 10-15

MF 20-60

Model	Size[mm] ⁽⁵⁾			Dmax(S)	Ds	H	H2	Z Stroke	Weight [g]
	d	d1	Dk						
MF-10	5.5	7.2	9.6	12.0	10.5	9	4.2	1.0	1
MF-15	7.5	10.4	13.0	18.5	16.4	10	4.6	1.5	1
MF-20	7.5	10.5	15.1	23.3	21.4	11	4.6	2.0	1
MF-25	7.5	10.5	15.1	28.0	26.4	11	4.6	2.0	2
MF-30	7.5	10.5	15.1	33.6	31.4	12	4.6	2.5	2
MF-40	11.0	17.5	21.6	43.7	41.4	15	7.0	2.5	4
MF-50	11.0	17.5	21.6	53.9	51.4	16	7.0	3.5	6
MF-60	10.5	17.5	22.1	65.0	61.2	18	7.5	5.1	9