



MAF flat suction cup



Sheet metal



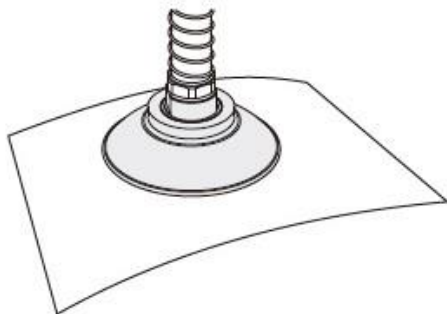
Skid resistance



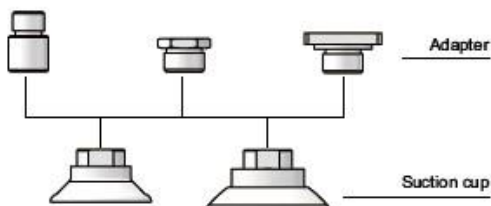
Greasy surface



Application of MAF flat suction cup



System design of MAF flat suction cup



Introduction

- ◆ A large-area internal support structure
- ◆ Can effectively increase the friction between the suction cup and the workpiece
- ◆ Applicable to workpieces of different sizes and in different shapes

Application

- ◆ Handles metal sheets with greasy surfaces
- ◆ No deformation of handled metal sheets or aluminum plates
- ◆ Handles inputted and outputted materials during machining with CNC or machine tool
- ◆ Handles bent sheet metal with slightly curved surface
- ◆ Handles stamped metal automotive parts

Structure

- ◆ Robust and hard-wearing suction cup MAF is made of the N material with sealing lip, special designed in grooves and an internal support
- ◆ The joint is fixed to the suction cup by vulcanization (with high strength)
- ◆ A plurality of optional suction cup connection modes

**MAF flat suction cup purchase guide****MAF 30 N45 G1/4-AG**

① ② ③ ④

① Product series	② Size specification	③ Material and Shore hardness	④ Joint specification
MAF	30 - ϕ 30mm	N45 - nitrile rubber - 45°	G1/4-AG - G1/4 male thread
	40 - ϕ 40mm	N60 - nitrile rubber - 60°	G1/4-IG - G1/4 female thread
	50 - ϕ 50mm	HT1 - High temperature resistant - 60°	G3/8-IG - G3/8 female thread
	60 - ϕ 60mm		M10×1.5-AG - M10×1.5 male thread
	80 - ϕ 80mm		M14×1.5-AG - M14×1.5 male thread
	100 - ϕ 100mm		RA rectangular adapter
Note: AG=Male thread IG=Female thread			

Model specifications of MAF flat suction cup

Model specification	G1/4-AG	G1/4-IG	G3/8-IG	M10×1.5-AG	M14×1.5-AG	RA rectangular adapter
MAF 30...	•	•	•	•	•	•
MAF 40...	•	•	•	•	•	•
MAF 50...	•	•	•	•	•	•
MAF 60...	•	•	•	•	•	•
MAF 80...	•	•	•	•	•	•
MAF 100...	•	•	•	•	•	•

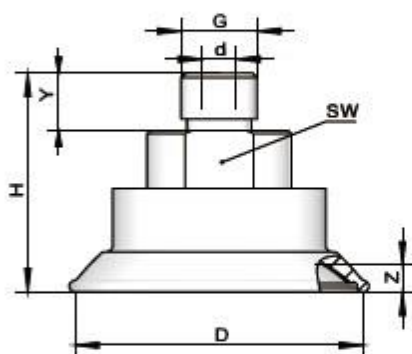
Technical parameters of MAF flat suction cup

Model	Suction force N	Lateral force N	Lateral force applied to greasy surface N	Internal Volume cm ³	Minimum radius of curvature of workpiece mm (convex)
MAF 30...	38	30	28	1,7	40
MAF 40...	69	52	50	3,8	50
MAF 50...	100	80	76	7,0	65
MAF 60...	150	105	85	13,0	75
MAF 80...	272	205	180	36,0	100
MAF 100...	430	310	300	58,0	135



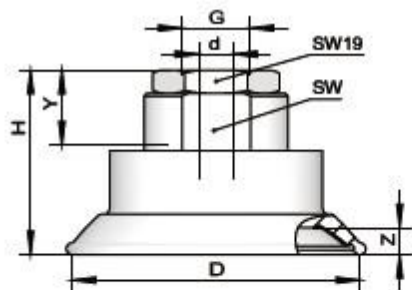
4 Design parameters of MAF flat suction cup

MAF 30 to 100 AG



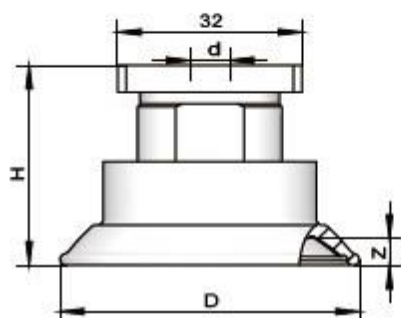
Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAF 30 □ G1/4-AG	34	4	30	10	3,0	17	G1/4-AG
MAF 30 □ M10x1,5-AG	34	4	32	12	3,0	17	M10x1,5-AG
MAF 30 □ M14x1,5-AG	34	4	34	12	3,0	17	M14x1,5-AG
MAF 40 □ G1/4-AG	46	4	32	10	4,0	17	G1/4-AG
MAF 40 □ M10x1,5-AG	46	4	34	12	4,0	17	M10x1,5-AG
MAF 40 □ M14x1,5-AG	46	4	34	12	4,0	17	M14x1,5-AG
MAF 50 □ G1/4-AG	56	6	38	10	5,0	22	G1/4-AG
MAF 50 □ M10x1,5-AG	56	4	40	12	5,0	22	M10x1,5-AG
MAF 50 □ M14x1,5-AG	56	6	40	12	5,0	22	M14x1,5-AG
MAF 60 □ G1/4-AG	67	6	41	10	6,0	22	G1/4-AG
MAF 60 □ M10x1,5-AG	67	4	43	12	6,0	22	M10x1,5-AG
MAF 60 □ M14x1,5-AG	67	6	43	12	6,0	22	M14x1,5-AG
MAF 80 □ G1/4-AG	89	6	45	10	7,6	22	G1/4-AG
MAF 80 □ M10x1,5-AG	89	4	47	12	7,6	22	M10x1,5-AG
MAF 80 □ M14x1,5-AG	89	6	47	12	7,6	22	M14x1,5-AG
MAF 100 □ G1/4-AG	110	6	46	10	9,5	22	G1/4-AG
MAF 100 □ M10x1,5-AG	110	4	48	12	9,5	22	M10x1,5-AG
MAF 100 □ M14x1,5-AG	110	6	48	12	9,5	22	M14x1,5-AG

MAF 30 to 100 IG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAF 30 □ G1/4-IG	34	4	20,0	12	3,0	17	G1/4-IG
MAF 30 □ G3/8-IG	34	4	36,0	9	3,0	22	G3/8-IG
MAF 40 □ G1/4-IG	46	4	22,0	12	4,0	17	G1/4-IG
MAF 40 □ G3/8-IG	46	4	38,0	9	4,0	22	G3/8-IG
MAF 50 □ G1/4-IG	56	6	33,0	15	5,0	22	G1/4-IG
MAF 50 □ G3/8-IG	56	6	28,0	15	5,0	22	G3/8-IG
MAF 60 □ G1/4-IG	67	6	36,0	15	6,0	22	G1/4-IG
MAF 60 □ G3/8-IG	67	6	31,0	15	6,0	22	G3/8-IG
MAF 80 □ G1/4-IG	89	6	40,0	20	7,6	22	G1/4-IG
MAF 80 □ G3/8-IG	89	6	35,0	15	7,6	22	G3/8-IG
MAF 100 □ G1/4-IG	110	6	41,0	20	9,5	22	G1/4-IG
MAF 100 □ G3/8-IG	110	6	36,0	15	9,5	22	G3/8-IG

MAF 30 to 100 RA (rectangular adapter)



Model	Size (mm)			
	D	d	H	Z
MAF 30 □ RA	34	4	23,2	3,0
MAF 40 □ RA	46	4	25,0	4,0
MAF 50 □ RA	56	6	27,5	5,0
MAF 60 □ RA	67	6	30,5	6,0
MAF 80 □ RA	89	6	34,5	7,6
MAF 100 □ RA	110	6	35,5	9,5