



MAB bellows suction cup



Sheet metal



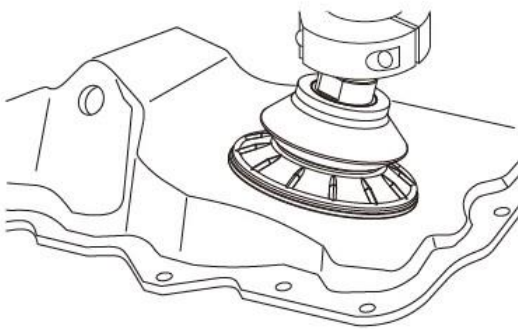
Skid resistance



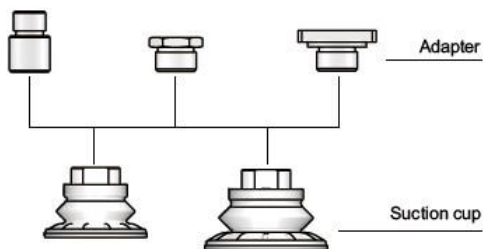
Greasy surface



Application of MAB bellows suction cup



System design of MAB bellows suction cup



Introduction

- ◆ 1.5-fold bellows structure
- ◆ Optimum adaptation and sealing to curved workpieces, good damping during placement on workpiece
- ◆ Can effectively increase the friction between the suction cup and the workpiece
- ◆ Applicable to workpieces of different sizes and in different shapes

Application

- ◆ Quickly handles sheet metal in a short cycle time
- ◆ No deformation of handled metal sheets or aluminum plates
- ◆ Designed special patterns and grooves inside the suction cup can prevent sheet metal with greasy surface from skidding sideways
- ◆ Handles stamped metal automotive parts

Structure

- ◆ Robust and hard-wearing suction cup MAB 1.5 folds is made of the N material with sealing lip, special designed in grooves and inner support
- ◆ The joint is fixed to the suction cup by vulcanization (with high strength)
- ◆ A plurality of optional suction cup connection modes

[MAB bellows suction cup purchase guide](#)**MAB 30 N45 G1/4-AG**

① ② ③ ④

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

[Model specifications of MAB bellows suction cup](#)

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

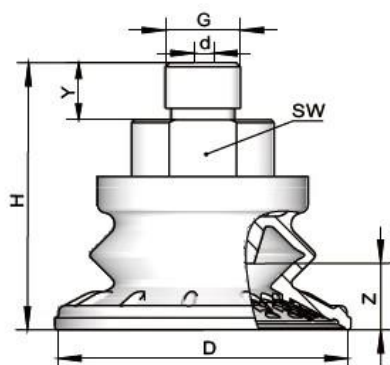
[Technical parameters of MAB bellows suction cup](#)

Model	Suction force N	Detaching force N	Lateral force N	Lateral force applied to greasy surface N	Internal Volume cm ³	Minimum radius of curvature of workpiece mm (convex)
MAB 30...	22	33	30	13	5,9	40
MAB 40...	38	59	36	33	7,0	40
MAB 50...	53	87	55	52	11,5	50
MAB 60...	82	130	82	77	24,0	65
MAB 80...	135	221	145	140	56,5	75
MAB 100...	190	357	220	214	92,5	90



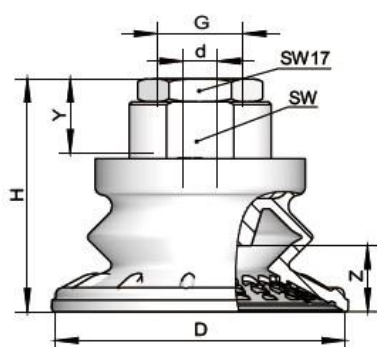
4 Design parameters of MAB bellows suction cup

MAB 30to 100 AG



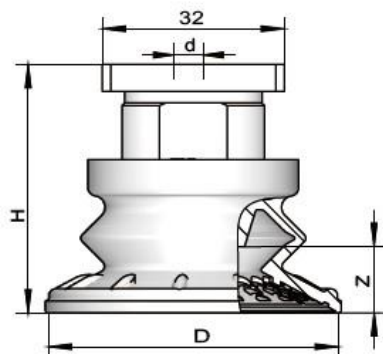
Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAB 30 □ G1/4-AG	32	4.0	38	10.0	9.0	17	G1/4-AG
MAB 30 □ M10x1.5-AG	32	4.0	40	12.0	9.0	17	M10x1.5-AG
MAB 30 □ M14x1.5-AG	32	4.0	40	12.0	9.0	17	M14x1.5-AG
MAB 40 □ G1/4-AG	42	4.0	39	10.0	10.0	17	G1/4-AG
MAB 40 □ M10x1.5-AG	42	4.0	41	12.0	10.0	17	M10x1.5-AG
MAB 40 □ M14x1.5-AG	42	4.0	41	12.0	10.0	17	M14x1.5-AG
MAB 50 □ G1/4-AG	52	6.0	47	10.0	11.5	22	G1/4-AG
MAB 50 □ M10x1.5-AG	52	4.0	49	12.0	11.5	22	M10x1.5-AG
MAB 50 □ M14x1.5-AG	52	6.0	49	12.0	11.5	22	M14x1.5-AG
MAB 60 □ G1/4-AG	63	6.0	51.5	10.0	14.5	22	G1/4-AG
MAB 60 □ M10x1.5-AG	63	4.0	53.5	12.0	14.5	22	M10x1.5-AG
MAB 60 □ M14x1.5-AG	63	6.0	53.5	12.0	14.5	22	M14x1.5-AG
MAB 80 □ G1/4-AG	83	6.0	60	10.0	22.0	22	G1/4-AG
MAB 80 □ M10x1.5-AG	83	4.0	62	12.0	22.0	22	M10x1.5-AG
MAB 80 □ M14x1.5-AG	83	6.0	62	12.0	22.0	22	M14x1.5-AG
MAB 100 □ G1/4-AG	103	6.0	67	10.0	26.0	22	G1/4-AG
MAB 100 □ M10x1.5-AG	103	4.0	69	12.0	26.0	22	M10x1.5-AG
MAB 100 □ M14x1.5-AG	103	6.0	69	12.0	26.0	22	M14x1.5-AG

MAB 30to 100 IG



Model	Size (mm)						
	D	d	H	Y	Z	SW	G
MAB 30 □ G1/4-IG	32	4.0	28	12.0	9.0	17	G1/4-IG
MAB 30 □ G3/8-IG	32	4.0	44	9.5	9.0	22	G3/8-IG
MAB 40 □ G1/4-IG	42	4.0	29	12.0	10.0	17	G1/4-IG
MAB 40 □ G3/8-IG	42	4.0	44	9.5	10.0	22	G3/8-IG
MAB 50 □ G1/4-IG	52	6.0	42	20.0	11.5	22	G1/4-IG
MAB 50 □ G3/8-IG	52	6.0	37	15.0	11.5	22	G3/8-IG
MAB 60 □ G1/4-IG	63	6.0	46.5	20.0	14.5	22	G1/4-IG
MAB 60 □ G3/8-IG	63	6.0	41.5	15.0	14.5	22	G3/8-IG
MAB 80 □ G1/4-IG	83	6.0	55	20.0	22.0	22	G1/4-IG
MAB 80 □ G3/8-IG	83	6.0	50	15.0	22.0	22	G3/8-IG
MAB 100 □ G1/4-IG	103	6.0	62	20.0	26.0	22	G1/4-IG
MAB 100 □ G3/8-IG	103	6.0	57	15.0	26.0	22	G3/8-IG

MAB 30 to 100 RA (rectangular adapter)



Model	Size (mm)			
	D	d	H	Z
MAB 30 □ RA	32	4.0	31.2	9.0
MAB 40 □ RA	42	4.0	31.2	10.0
MAB 50 □ RA	52	6.0	36.5	11.5
MAB 60 □ RA	63	6.0	41	14.5
MAB 80 □ RA	83	6.0	49.5	22.0
MAB 100 □ RA	103	6.0	56.5	26.0