

Flat suction cup (oval)

SAOF 100x50 NBR-45 M10-AG

Part no.:10.01.05.00590

<https://www.schmalz.com/10.01.05.00590>

Home > Vacuum Technology for Automation > Vacuum Components > Vacuum Suction Cups > Suction Cups for Handling Sheet Metal > Flat Suction Cups SAOF (Oval) > SAOF 100x50 NBR-45 M10-AG

Flat suction cup (oval) for very dynamic handling of smooth and oily workpieces



Dimensions (LxB): 100x50

Suction cup material: Nitrile rubber NBR

Material hardness [Shore A]: 45 Shore A

Nipple material: Steel

Connection: M10-AG

Design Data



Attribute	Value
Bmax(S)	54 mm
Bs	48.10 mm
dn	4 mm
G1	M10-M
H	22 mm
LG1	10 mm
Lmax(S)	106 mm
Ls	101.10 mm
SW1	17 mm
Z (Stroke)	5 mm

Note: Acceptable dimensional tolerances for elastomer parts concerning to DIN ISO 3302-1 M3

Technical Data

Attribute	Value
Suction force (-600mbar)	217 N
Lateral force	181 N
Lateral force (oily surface)	121 N
Volume	21.80 cm ³
Curve radius (min) (convex)	75 mm
Hose diameter (rec.) d	6 mm
Number of folds	0

Contact Schmalz

J. Schmalz GmbH | Johannes-Schmalz-Str.1, 72293 Glatten, Germany | +49 7443 2403-102 | customercenter@schmalz.de

Flat suction cup (oval)

SAOF 100x50 NBR-45 M10-AG

Part no.:10.01.05.00590

<https://www.schmalz.com/10.01.05.00590>

Suction cup material	Nitrile rubber NBR
Material hardness [Shore A]	45 Shore A
Weight	74 g
Product family	SAOF
Dimensions (LxB)	100x50

Note: Suction force: The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a dry, smooth and flat workpiece surface - they do not include a safety factor Lateral force: The specified lateral forces are values measured at a vacuum of -0.6 bar with a dry or oily, smooth, flat workpiece surface. Depending on the workpiece surface and its quality, the actual values may deviate from these values Hose diameter: The recommended hose diameter refers to a hose length of approx. 2 m