

Flat suction cup (oval)

SAOF 140x70 NBR-45 G1/4-AG

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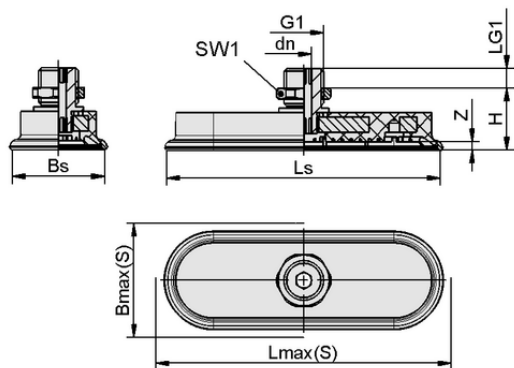


Technical data

Attribute	Value
Suction cup material	Nitrile rubber NBR
Material hardness [Shore A]	45.0 Shore A
Connection	G1/4-AG
Dimension (LxW)	140x70
Nipple material	Aluminum

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Suction cup SAOF, available in various diameters, is delivered with connection nipple vulcanized to elastomer part.



Design data

Attribute	Value
Height H	25.00 mm
Nominal diameter dn	6.00 mm
Thread G1	G1/4"-M
Thread length LG1	8.0 mm
Key width SW1	17.0 mm
Spring stroke Z	7.0 mm
Suction cup width Bs	67.60 mm
Ls	140.60 mm
Lmax.(S)	149.00 mm
Bmax(S)	76.00 mm

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

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**Technical data**

Attribute	Value
Suction cup material	Nitrile rubber NBR
Material hardness [Shore A]	45.0 Shore A
Hose inner diameter (recom.) d	6.0 mm
Workpiece radius min. (convex)	90.0 mm
Suction force (-600mbar)	425.00 N
Weight	85.00 g
Lateral force	344.0 N
Lateral force oily surface	230.0 N
Volume	57.300 cm ³
Number of folds	0.0
Product family	SAOF
Dimension (LxW)	140x70

Note: Suction force: The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a dry, smooth and even 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

**Further documentation**

CAD data and other documents relating to the article can be found at: www.schmalz.com/10.01.05.00603