

Bellows suction cup (oval)

SAOB 140x70 HT1-60 G1/4-IG

Part no...:10.01.06.03177

<https://www.schmalz.com/10.01.06.03177>

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Bellows suction cup (oval) for high dynamic on curved, oily surfaced workpieces



Dimensions (LxB): 140 x 70

Suction cup material: High temperature material HT1

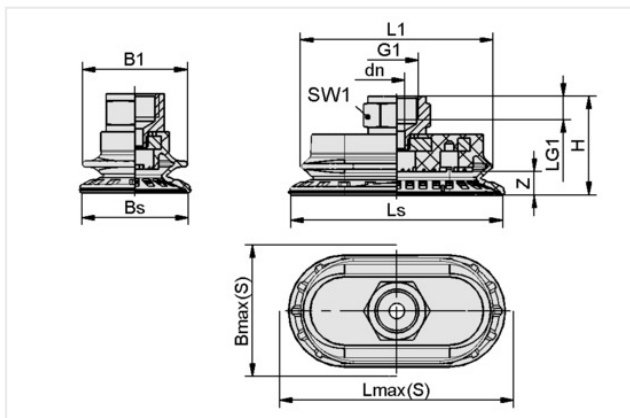
Material hardness [Shore A]: 60 Shore A

Nipple material: Nickel plated

Connection: G1/4-IG

Number of folds: 1.5

Design Data



Attribute	Value
B1	67 mm
Bmax(S)	75 mm
Bs	70.10 mm
dn	8 mm
G1	G1/4"-F
H	47 mm
L1	126 mm
LG1	8 mm
Lmax(S)	146 mm
Ls	141.10 mm
SW1	17 mm
Z (Stroke)	16.50 mm

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

Technical Data

Attribute	Value
Suction force (-600mbar)	165 N
Pull-off force	351.90 N
Lateral force	459 N
Lateral force (oily surface)	302.80 N
Volume	106 cm ³

Contact Schmalz

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Curve radius (min) (convex)	70 mm
Hose diameter (rec.) d	6 mm
Dimensions (LxB)	140 x 70
Number of folds	1.50
Suction cup material	High temperature material HT1
Material hardness [Shore A]	60 Shore A
Weight	117.40 g
Product family	SAOB

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