

Bellows suction cup (oval)

SAOB 80x40 HT1-60 G1/4-IG

Part no.:10.01.06.03176

<https://www.schmalz.com/10.01.06.03176>

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



Dimensions (LxB): 80 x 40

Suction cup material: High temperature material HT1

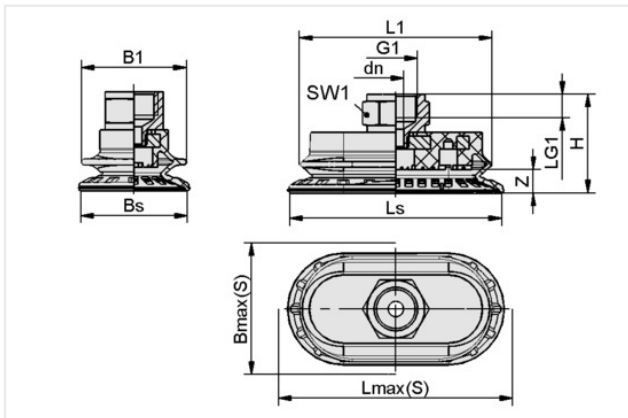
Material hardness [Shore A]: 60 Shore A

Nipple material: Nickel plated

Connection: G1/4-IG

Number of folds: 1.5

Design Data



Attribute	Value
B1	40 mm
Bmax(S)	43 mm
Bs	40.60 mm
dn	6 mm
G1	G1/4"-F
H	37.20 mm
L1	73.30 mm
LG1	8 mm
Lmax(S)	83 mm
Ls	80.60 mm
SW1	17 mm
Z (Stroke)	9 mm

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

Technical Data

Attribute	Value
Suction force (-600mbar)	65 N
Pull-off force	131.70 N
Lateral force	152.80 N
Lateral force (oily surface)	73.60 N
Volume	21.80 cm ³

Contact Schmalz

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Curve radius (min) (convex)	25 mm
Hose diameter (rec.) d	6 mm
Dimensions (LxB)	80 x 40
Number of folds	1.50
Suction cup material	High temperature material HT1
Material hardness [Shore A]	60 Shore A
Weight	34.90 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