

Bellows suction cups (round)

FSGA 4 SI-55 M3-AG



Art.-Nr.: 10.01.06.04144



Technical data

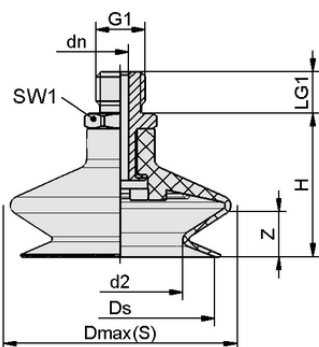
Attribute	Value
Suction cup material	Silicone SI
Material hardness [Shore A]	55.0 Shore A
Size	4.00
Number of folds	1.5
Connection	M3-M
Vacuum connection	M3-M
Nipple material	Aluminum
Material characteristics	FDA-compatible

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Suction cup FSGA (elastomer part + connection nipple) is delivered unassembled (diameters of 33 mm and more are assembled). The delivery consists of:

- Suction cup of type FGA – elastomer part, available in various diameters and materials
- Connection nipple of type SA-NIP – available with various threads

Available spare parts: suction cup FGA, connection nipple SA-NIP



Design data

Attribute	Value
Height H	7.50 mm
Nominal diameter dn	1.00 mm
d2	2.5 mm
Thread G1	M3-M
Thread length LG1	3.0 mm
Key width SW1	5.0 mm
Spring stroke Z	1.5 mm
Diameter Ds	4.0 mm
Diameter Dmax(S)	5.0 mm

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

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Attribute	Value
Suction cup material	Silicone SI
Material hardness [Shore A]	55.0 Shore A
Hose inner diameter (recom.) d	2.7 mm
Workpiece radius min. (convex)	1.5 mm
Pull-off force	0.50 N
Suction force (-600mbar)	0.29 N
Volume	0.035 cm ³
Size	4.00
Number of folds	1.5
Product family	FSGA
Connection	M3-AG

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 Pull-off force: The pull-off force of the versions made of natural rubber is reduced by about 40% 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/10.01.06.04144



Ordering Data Spare Parts 10.01.06.04144

Typ		Item number
Suction cup connection nipple	SA-NIP N003 M3-AG DN100	10.01.01.00316



Ordering Data Wear Parts 10.01.06.04144

Typ		Item number
Bellows suction cup (round)	FGA 4 SI-55 N003	10.01.06.04092



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