

Bellows suction cups (round)  
**FSG 4 HT1-60 M5-AG**



Art.-Nr.: 10.01.06.02968



**Technical data**

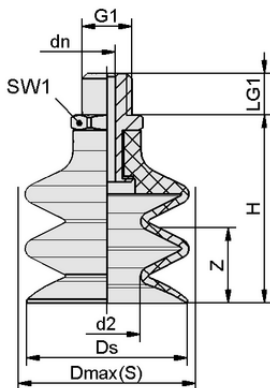
Attribute	Value
Suction cup material	High temperature material HT1
Material hardness [Shore A]	60.0 Shore A
Size	4.00
Number of folds	2.5
Connection	M5-M
Vacuum connection	M5-M
Nipple material	Aluminum

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Suction cup FSG (elastomer part + connection nipple) is delivered unassembled (assembled from a diameter of 32 mm). The delivery consists of:

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

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



Design data FSG 4 HT1-60 M5-AG

**Design data**

Attribute	Value
Height H	19.00 mm
Nominal diameter dn	2.00 mm
d2	2.4 mm
Thread G1	M5-M
Thread length LG1	5.0 mm
Key width SW1	8.0 mm
Spring stroke Z	1.5 mm
Diameter Ds	3.8 mm
Diameter Dmax(S)	5.5 mm

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

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Attribute	Value
Suction cup material	High temperature material HT1
Material hardness [Shore A]	60.0 Shore A
Hose inner diameter (recom.) d	2.0 mm
Workpiece radius min. (convex)	4.0 mm
Pull-off force	0.60 N
Suction force (-600mbar)	0.27 N
Weight	1.50 g
Volume	0.053 cm <sup>3</sup>
Size	4.00
Number of folds	2.5
Product family	FSG
Connection	M5-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/10.01.06.02968](http://www.schmalz.com/10.01.06.02968)



**Ordering Data Spare Parts 10.01.06.02968**

Typ		Item number
Suction Cup Connection Nipples	SA-NIP N017 M5-AG DN200	10.01.06.00314



**Ordering Data Wear Parts 10.01.06.02968**

Typ		Item number
Bellows suction cup (round)	FG 4 HT1-60 N017	10.01.06.02930



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