

Bellows suction cups (round)  
**FSG 42 NBR-55 G1/4-IG**



Art.-Nr.: 10.01.06.00007



**Technical data**

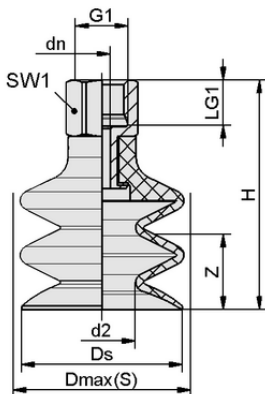
Attribute	Value
Suction cup material	Nitrile rubber NBR
Material hardness [Shore A]	55.0 Shore A
Size	42.00
Number of folds	2.5
Connection	G1/4"-F
Vacuum connection	G1/4"-F
Nipple material	Aluminum

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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 42 NBR-55 G1/4-IG

**Design data**

Attribute	Value
Height H	61.00 mm
Nominal diameter dn	4.40 mm
d2	17.8 mm
Thread G1	G1/4"-F
Thread length LG1	12.0 mm
Key width SW1	17.0 mm
Spring stroke Z	20.0 mm
Diameter Ds	42.6 mm
Diameter Dmax(S)	45.0 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]	55.0 Shore A
Hose inner diameter (recom.) d	6.0 mm
Workpiece radius min. (convex)	75.0 mm
Pull-off force	44.00 N
Suction force (-600mbar)	14.93 N
Weight	27.00 g
Volume	19.786 cm <sup>3</sup>
Size	42.00
Number of folds	2.5
Product family	FSG
Connection	G1/4-IG

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/10.01.06.00007](http://www.schmalz.com/10.01.06.00007)



### Ordering Data Accessories 10.01.06.00007

Typ		Item number
Sealing ring	DR 42/20x5 MOS SI-15	10.01.06.02616
Filter disc	FD 34 120	10.01.06.02572
Suction cup cover	SU 40	10.01.01.12856



### Ordering Data Spare Parts 10.01.06.00007

Typ		Item number
Suction Cup Connection Nipples	SA-NIP N018 G1/4-IG DN440	10.01.06.01066



### Ordering Data Wear Parts 10.01.06.00007

Typ		Item number
Bellows suction cup (round)	FG 42 NBR-55 N018	10.01.06.00141



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