

Bellows suction cups (round)

## FSG 4 SI-55 M5-AG



Art.-Nr.: 10.01.06.02966



### Technical data

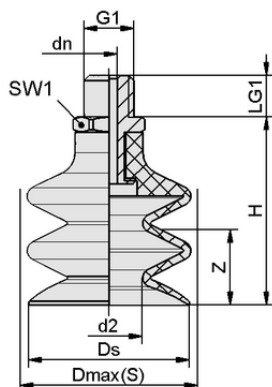
| Attribute                   | Value          |
|-----------------------------|----------------|
| Suction cup material        | Silicone SI    |
| Material hardness [Shore A] | 55.0 Shore A   |
| Size                        | 4.00           |
| Number of folds             | 2.5            |
| Connection                  | M5-M           |
| Vacuum connection           | M5-M           |
| Nipple material             | Aluminum       |
| Material characteristics    | FDA-compatible |

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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

| 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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### Technical data

| Attribute                      | Value                 |
|--------------------------------|-----------------------|
| Suction cup material           | Silicone SI           |
| Material hardness [Shore A]    | 55.0 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/10.01.06.02966](http://www.schmalz.com/10.01.06.02966)



### Ordering Data Spare Parts 10.01.06.02966

| Typ                           | Item number                               |
|-------------------------------|-------------------------------------------|
| Suction cup connection nipple | SA-NIP N017 M5-AG DN200<br>10.01.06.00314 |



### Ordering Data Wear Parts 10.01.06.02966

| Typ                         | Item number                       |
|-----------------------------|-----------------------------------|
| Bellows suction cup (round) | FG 4 SI-55 N017<br>10.01.06.02963 |



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