

Bellows suction cups (round)

# FSG 20 NK-45 M5-AG



Art.-Nr.: 10.01.06.00439



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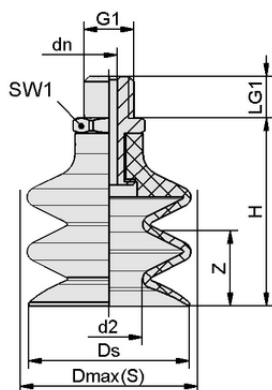
## Technical data

| Attribute                   | Value             |
|-----------------------------|-------------------|
| Suction cup material        | Natural rubber NK |
| Material hardness [Shore A] | 45.0 Shore A      |
| Size                        | 20.00             |
| Number of folds             | 2.5               |
| Connection                  | M5-M              |
| Vacuum connection           | M5-M              |
| Nipple material             | Aluminum          |

Suction cup FSG (elastomer part + connection nipple) is delivered unassembled. 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 20 NK-45 M5-AG

## Design data

| Attribute           | Value    |
|---------------------|----------|
| Height H            | 27.10 mm |
| Nominal diameter dn | 2.50 mm  |
| d2                  | 10.5 mm  |
| Thread G1           | M5-M     |
| Thread length LG1   | 5.0 mm   |
| Key width SW1       | 7.0 mm   |
| Spring stroke Z     | 9.0 mm   |
| Diameter Ds         | 20.0 mm  |
| Diameter Dmax(S)    | 21.0 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           | Natural rubber NK     |
| Material hardness [Shore A]    | 45.0 Shore A          |
| Hose inner diameter (recom.) d | 2.0 mm                |
| Workpiece radius min. (convex) | 30.0 mm               |
| Pull-off force                 | 12.10 N               |
| Suction force (-600mbar)       | 5.20 N                |
| Weight                         | 3.3 g                 |
| Volume                         | 2.298 cm <sup>3</sup> |
| Size                           | 20.00                 |
| 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/10.01.06.00439](http://www.schmalz.com/10.01.06.00439)



## Ordering Data Accessories 10.01.06.00439

| Typ                     |             | Item number    |
|-------------------------|-------------|----------------|
| Filter disc             | FD 16 120   | 10.01.06.02565 |
| Schmalz Pad Insert PEEK | SPI 21 PEEK | 10.01.06.03285 |



## Ordering Data Spare Parts 10.01.06.00439

| Typ                           |                         | Item number    |
|-------------------------------|-------------------------|----------------|
| Suction cup connection nipple | SA-NIP N016 M5-AG DN250 | 10.01.06.00123 |



## Ordering Data Wear Parts 10.01.06.00439

| Typ                         |                  | Item number    |
|-----------------------------|------------------|----------------|
| Bellows suction cup (round) | FG 20 NK-45 N016 | 10.01.06.00455 |



[WWW.SCHMALZ.COM/10.01.06.00439](http://WWW.SCHMALZ.COM/10.01.06.00439)