

Art.-Nr.: 10.01.06.04201

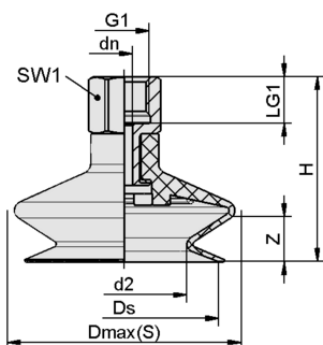


FSGA 16 SI-MD-55 G1/8-IG

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 FSGA 16 SI-MD-55 G1/8-IG

## Technical data

| Attribute                   | Value                        |
|-----------------------------|------------------------------|
| Suction cup material        | Silicone SI metal detectable |
| Material hardness [Shore A] | 55.0 Shore A                 |
| Size                        | 16.00                        |
| Number of folds             | 1.5                          |
| Connection                  | G1/8"-F                      |
| Vacuum connection           | G1/8"-F                      |
| Nipple material             | Aluminum                     |
| Material characteristics    | FDA-compatible               |

## Design data

| Attribute           | Value    |
|---------------------|----------|
| Height H            | 31.20 mm |
| Nominal diameter dn | 3.50 mm  |
| d2                  | 8.4 mm   |
| Thread G1           | G1/8"-F  |
| Thread length LG1   | 8.0 mm   |
| Key width SW1       | 14.0 mm  |
| Spring stroke Z     | 7.0 mm   |
| Diameter Ds         | 15.6 mm  |
| Diameter Dmax(S)    | 18.5 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 metal detectable |
| Material hardness [Shore A]    | 55.0 Shore A                 |
| Hose inner diameter (recom.) d | 4.0 mm                       |
| Workpiece radius min. (convex) | 20.0 mm                      |
| Pull-off force                 | 6.70 N                       |
| Suction force (-600mbar)       | 2.30 N                       |
| Weight                         | 5.40 g                       |
| Volume                         | 0.750 cm <sup>3</sup>        |
| Size                           | 16.00                        |
| Number of folds                | 1.5                          |
| Product family                 | FSGA                         |
| Connection                     | G1/8-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/10.01.06.04201](http://www.schmalz.com/10.01.06.04201)

**Ordering Data Accessories 10.01.06.04201**

| Typ                     | Item number    |
|-------------------------|----------------|
| Schmalz Pad Insert PEEK | 10.01.06.03283 |
| SPI 17 PEEK             |                |

**Ordering Data Spare Parts 10.01.06.04201**

| Typ                           | Item number    |
|-------------------------------|----------------|
| Suction cup connection nipple | 10.01.06.05731 |
| SA-NIP N016 G1/8-IG DN350     |                |

**Ordering Data Wear Parts 10.01.06.04201**

| Typ                               | Item number    |
|-----------------------------------|----------------|
| Bellows suction cup SI-MD (round) | 10.01.06.04115 |
| FGA 16 SI-MD-55 N016              |                |

