

## Bellows suction cups (round)

FSG 42 SI-55 G1/4-AG

Part no.:10.01.06.00045

<https://www.schmalz.com/10.01.06.00045>

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### Bellows suction cup (round) for very uneven workpieces



Size: 42

Suction cup material: Silicone SI

Material hardness [Shore A]: 55 Shore A

Material characteristics: FDA-compatible

Nipple material: Aluminum

Connection: G1/4"-M

Number of folds: 2.5

Vacuum connection: G1/4"-M

### Design Data



| Attribute  | Value    |
|------------|----------|
| d2         | 17.80 mm |
| dn         | 4.40 mm  |
| Dmax(S)    | 45 mm    |
| Ds         | 42.60 mm |
| G1         | G1/4"-M  |
| H          | 50 mm    |
| LG1        | 11 mm    |
| SW1        | 17 mm    |
| Z (Stroke) | 20 mm    |

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

### Technical Data

| Attribute                   | Value                 |
|-----------------------------|-----------------------|
| Suction cup material        | Silicone SI           |
| Material hardness [Shore A] | 55 Shore A            |
| Size                        | 42                    |
| Number of folds             | 2.50                  |
| Connection                  | G1/4-AG               |
| Curve radius (min) (convex) | 75 mm                 |
| Volume                      | 19.79 cm <sup>3</sup> |

### Contact Schmalz

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|                          |         |
|--------------------------|---------|
| Suction force (-600mbar) | 14.93 N |
| Pull-off force           | 44 N    |
| Hose diameter (rec.) d   | 6 mm    |
| Weight                   | 27 g    |
| Product family           | FSG     |

Note: Suction force: The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a dry, smooth and flat 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

### Accessories



#### DR 42/20x5 MOS SI-15

Part no.:10.01.06.02616

External diameter D: 42 mm

Internal diameter d: 20 mm

Height H: 5 mm

Material type: Foam rubber

Sealing material: Silicone SI

Material hardness [Shore A]: 15 Shore A



#### FD 34 120

Part no.:10.01.06.02572

External diameter D: 34 mm

Filter pore size: 120 µm

Construction use: Bellows suction cup

Size: FG 42

## Bellows suction cups (round)

FSG 42 SI-55 G1/4-AG

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### SU 40

Part no...:10.01.01.12856

Size: 40

Clamping range: 35.0 ... 45.0 mm

Temperature resistance: 80 °C

## Spare parts



### SA-NIP N018 G1/4-AG DN440

Part no...:10.01.06.01065

Nipple family: N 018

Thread G1: G1/4"-M

Length L1: 28.8 mm

Fitting length: 4 mm

Nominal diameter dn: 4.4 mm

Spanner size SW2: 5 mm

Material: Aluminum



### FG 42 SI-55 N018

Part no...:10.01.06.00145

Size: 42

Suction cup material: Silicone SI

Material hardness [Shore A]: 55 Shore A

Material characteristics: FDA-compatible

Number of folds: 2.5

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