

## Bellows suction cups (round)

FSG 32 NK-45 G1/4-AG

Part no.:10.01.06.00445

<https://www.schmalz.com/10.01.06.00445>

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



Size: 32

Suction cup material: Natural Rubber NK

Material hardness [Shore A]: 45 Shore A

Nipple material: Aluminum

Connection: G1/4"-M

Number of folds: 2.5

Vacuum connection: G1/4"-M

### Design Data



| Attribute  | Value    |
|------------|----------|
| d2         | 16 mm    |
| dn         | 4.40 mm  |
| Dmax(S)    | 33.50 mm |
| Ds         | 32 mm    |
| G1         | G1/4"-M  |
| H          | 41.50 mm |
| LG1        | 11 mm    |
| SW1        | 17 mm    |
| Z (Stroke) | 15 mm    |

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

### Technical Data

| Attribute                   | Value              |
|-----------------------------|--------------------|
| Suction cup material        | Natural Rubber NK  |
| Material hardness [Shore A] | 45 Shore A         |
| Size                        | 32                 |
| Number of folds             | 2.50               |
| Connection                  | G1/4-AG            |
| Curve radius (min) (convex) | 35 mm              |
| Volume                      | 10 cm <sup>3</sup> |

### Contact Schmalz

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|                          |         |
|--------------------------|---------|
| Suction force (-600mbar) | 12.06 N |
| Pull-off force           | 36.90 N |
| Hose diameter (rec.) d   | 6 mm    |
| Weight                   | 17 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 32/19x2 MOS SI-15

Part no.:10.01.06.02615

External diameter D: 32 mm

Internal diameter d: 19 mm

Height H: 2 mm

Material type: Foam rubber

Sealing material: Silicone SI

Material hardness [Shore A]: 15 Shore A



#### FD 27 120

Part no.:10.01.06.02571

External diameter D: 27 mm

Filter pore size: 120 µm

Construction use: Bellows suction cup

Size: FG 32

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### SPI 32 PEEK

Part no...:10.01.06.03287

Size: 32

Material: Polyetheretherketon



### SU 30

Part no...:10.01.01.12889

Size: 30

Clamping range: 27.0 ... 35.0 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

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**FG 32 NK-45 N018**

Part no...:10.01.06.00457

Size: 32

Suction cup material: Natural Rubber NK

Material hardness [Shore A]: 45 Shore A

Number of folds: 2.5