

## Bellows suction cups (round)

FSG 20 NBR-55 G1/8-IG

Part no.:10.01.06.00005

<https://www.schmalz.com/10.01.06.00005>

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



Size: 20

Suction cup material: Nitrile rubber NBR

Material hardness [Shore A]: 55 Shore A

Nipple material: Aluminum

Connection: G1/8"-F

Number of folds: 2.5

Vacuum connection: G1/8"-F

### Design Data



| Attribute  | Value    |
|------------|----------|
| d2         | 10.50 mm |
| dn         | 3.50 mm  |
| Dmax(S)    | 21 mm    |
| Ds         | 20 mm    |
| G1         | G1/8"-F  |
| H          | 34.10 mm |
| LG1        | 8.50 mm  |
| SW1        | 14 mm    |
| Z (Stroke) | 9 mm     |

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

### Technical Data

| Attribute                   | Value                |
|-----------------------------|----------------------|
| Suction cup material        | Nitrile rubber NBR   |
| Material hardness [Shore A] | 55 Shore A           |
| Size                        | 20                   |
| Number of folds             | 2.50                 |
| Connection                  | G1/8-IG              |
| Curve radius (min) (convex) | 30 mm                |
| Volume                      | 2.30 cm <sup>3</sup> |

### Contact Schmalz

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|                          |         |
|--------------------------|---------|
| Suction force (-600mbar) | 5.20 N  |
| Pull-off force           | 12.10 N |
| Hose diameter (rec.) d   | 4 mm    |
| Weight                   | 6.40 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



#### FD 16 120

Part no.:10.01.06.02565

External diameter D: 16 mm

Filter pore size: 120 µm

Construction use: Bellows suction cup

Size: FG20/FGA20



#### SPI 21 PEEK

Part no.:10.01.06.03285

Size: 21

Material: Polyetheretherketon

### Spare parts

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### SA-NIP N016 G1/8-IG DN350

Part no...:10.01.06.05731

Nipple family: N 016

Thread G1: G1/8"-F

Length L1: 18.5 mm

Fitting length: 12 mm

Nominal diameter dn: 3.5 mm

Material: Aluminum



### FG 20 NBR-55 N016

Part no...:10.01.06.00054

Size: 20

Suction cup material: Nitrile rubber NBR

Material hardness [Shore A]: 55 Shore A

Number of folds: 2.5