

## Spring plungers

FSTE-HDB G3/8-AG 45 VG-AB

Part no...:10.01.02.01422

<https://www.schmalz.com/10.01.02.01422>

Home > Vacuum Technology for Automation > Vacuum Components > Mounting Elements > Spring Plungers > Spring Plungers FSTE-HDB > FSTE-HDB G3/8-AG 45 VG-AB

### Spring plunger with damping and height compensation, heavy-duty and ball guided anti-rotation guard



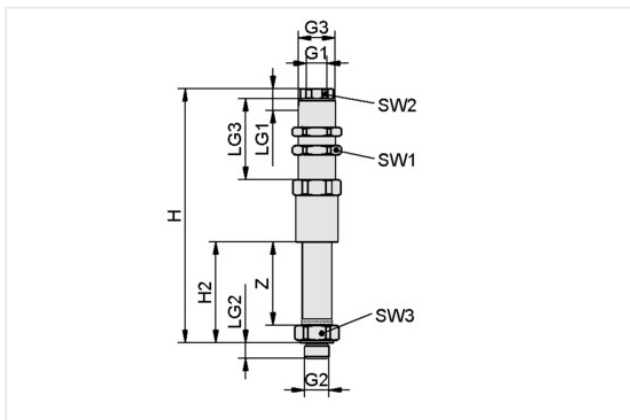
Suction cup connection: G3/8"-M

Vacuum connection: G1/8"-F

Spring stroke Z: 45 mm

Shape mounting elements: with anti-rotation guard anti-block

### Design Data



| Attribute  | Value     |
|------------|-----------|
| G1         | G1/8"-F   |
| G2         | G3/8"-M   |
| G3         | M20x1.5-M |
| H          | 138.80 mm |
| H2         | 55.30 mm  |
| LG1        | 12 mm     |
| LG2        | 8 mm      |
| LG3        | 44 mm     |
| SW1        | 24 mm     |
| SW2        | 17 mm     |
| SW3        | 22 mm     |
| Z (Stroke) | 45 mm     |

Recommendation: Avoid maximum plunger stroke Z during continuous operation to extend service life Ensure that the hose guide is free from distortion

### Technical Data

| Attribute               | Value                               |
|-------------------------|-------------------------------------|
| Shape mounting elements | with anti-rotation guard anti-block |
| Spring rate             | 0.45 N/mm                           |
| Spring pretension       | 3.52 N                              |
| Spring force, center    | 13.71 N                             |

### Contact Schmalz

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|                       |             |
|-----------------------|-------------|
| Vertical load         | 2400 N      |
| Horizontal load       | 466 N       |
| Weight                | 256 g       |
| Operating temperature | 0 ... 80 °C |
| Product family        | FSTE-HDB    |

Note: Spring force: Referred to 50 % of operating stroke Vertical load: Maximum static loading Horizontal load: The specification of the horizontal load refers to the lower edge of the plunger with extended spring. It is a maximum static stress and it impairs the spring compression and extension in horizontal position.

### Accessories



#### RED-STK G1/2-AG G3/8-IG MS-V

Part no.:10.08.04.00096

Thread G1: G1/2"-M

Thread G2: G3/8"-F

Material: Brass

Surface: nickel plated

Length L: 6 mm



#### HTR-STA 55 1N D20 WI

Part no.:10.08.03.00086

Length L: 55 mm

Connection 1: Sliding block

Connection of suction cup, spring plunger: Contour D20-G1/4

Shape: angled

### Contact Schmalz

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### HTR-UNI 2N FSTE-HDB

Part no...:10.01.03.00332

Operating temperature: °C

Shape: for FSTE-HDB

Cross-beam connection: 2 T-slots



### ST G1/8-AG 4 MS-ROH

Part no...:10.08.03.00153

Thread G1: G1/8"-M

Hose diameter (rec.) d: 4 mm

Material: Brass

Surface: raw

Length L: 4 mm

Nominal diameter dn: 2.5 mm



### ST G1/8-AG 6 MS-V

Part no...:10.08.03.00154

Thread G1: G1/8"-M

Hose diameter (rec.) d: 6 mm

Material: Brass

Surface: nickel plated

Length L: 5 mm

Nominal diameter dn: 4.4 mm

## Contact Schmalz

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### ST G1/8-AG 9 MS-V

Part no...:10.08.03.00155

Thread G1: G1/8"-M

Hose diameter (rec.) d: 9 mm

Material: Brass

Surface: nickel plated

Length L: 5 mm

Nominal diameter dn: 4 mm



### STV-GE G1/8-AG 4

Part no...:10.08.02.00202

Thread G1: G1/8"-M

Hose diameter: 4 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 7.9 mm

Length L: 13.7 mm



### STV-GE G1/8-AG 6

Part no...:10.08.02.00204

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 11.4 mm

Length L: 16.4 mm

## Contact Schmalz

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### STV-GE G1/8-AG 8

Part no...:10.08.02.00206

Thread G1: G1/8"-M

Hose diameter: 8 mm

Material: Brass

Operating temperature: °C

External diameter D: 14 mm

Length L: 20.7 mm



### STV-W G1/8-AG 4

Part no...:10.08.02.00156

Thread G1: G1/8"-M

Hose diameter: 4 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 16.4 mm



### STV-W G1/8-AG 6

Part no...:10.08.02.00158

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 20.1 mm

## Contact Schmalz

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### STV-W G1/8-AG 8

Part no...:10.08.02.00160

Thread G1: G1/8"-M

Hose diameter: 8 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 24 mm



### STV-GE G1/8-AG 6 HT

Part no...:10.08.02.00389

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 120 °C

External diameter D: 11.6 mm

Length L: 19 mm



### STV-W G1/8-AG 6

Part no...:10.08.02.00288

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Plastics

Operating temperature: °C

Length L: 20.8 mm

## Contact Schmalz

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### STV-W G1/8-AG 6 HT

Part no...:10.08.02.00391

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 120 °C

Length L: 22.5 mm



### STV-WF G1/8-AG 4

Part no...:10.08.02.00166

Thread G1: G1/8"-M

Hose diameter: 4 mm

Material: Nickel plated

Operating temperature: -10 ... 70 °C

Length L: 17.4 mm



### STV-WF G1/8-AG 6

Part no...:10.08.02.00168

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Nickel plated

Operating temperature: -10 ... 70 °C

Length L: 21.4 mm

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### STV-WF G1/8-AG 8

Part no...:10.08.02.00170

Thread G1: G1/8"-M

Hose diameter: 8 mm

Material: Nickel plated

Operating temperature: -10 ... 70 °C

Length L: 23.4 mm



### STV-WF G1/8-AG 10

Part no...:10.08.02.00257

Thread G1: G1/8"-M

Hose diameter: 10 mm

Material: Nickel plated

Operating temperature: -10 ... 70 °C

Length L: 25.2 mm



### STV-T G1/8-AG 4

Part no...:10.09.02.00039

Thread G1: G1/8"-M

Hose diameter: 4 mm

Material: Brass

Operating temperature: °C

Length L: 32.5 mm

## Contact Schmalz

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### STV-T G1/8-AG 6

Part no...:10.09.02.00040

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: °C

Length L: 41.5 mm



### STV-T G1/8-AG 8

Part no...:10.09.02.00041

Thread G1: G1/8"-M

Hose diameter: 8 mm

Material: Brass

Operating temperature: °C

Length L: 48.7 mm

## Contact Schmalz

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