

# Spring plunger

FSTE-HD G3/8-AG 90 VG

Part no...:10.01.02.00880

<https://www.schmalz.com/10.01.02.00880>



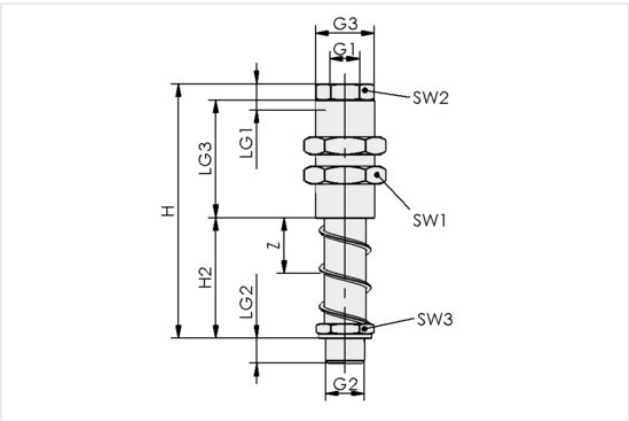
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## Spring plunger with damping and height compensation, heavy-duty



- Suction cup connection: G3/8"-M
- Vacuum connection: G3/8"-F
- Spring stroke Z: 90 mm
- Shape mounting elements: with anti-rotation guard

### Design Data



| Attribute  | Value     |
|------------|-----------|
| G1         | G3/8"-F   |
| G2         | G3/8"-M   |
| G3         | M30x1.5-M |
| H          | 189 mm    |
| H2         | 124 mm    |
| LG1        | 12.80 mm  |
| LG2        | 10 mm     |
| LG3        | 53 mm     |
| SW1        | 36 mm     |
| SW2        | 24 mm     |
| SW3        | 24 mm     |
| Z (Stroke) | 90 mm     |

### Technical Data

| Attribute            | Value     |
|----------------------|-----------|
| Spring rate          | 1.07 N/mm |
| Spring pretension    | 24.38 N   |
| Spring force, center | 75.30 N   |
| Vertical load        | 4800 N    |
| Horizontal load      | 730 N     |
| Weight               | 545 g     |

### Contact Schmalz

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|                       |             |
|-----------------------|-------------|
| Operating temperature | 0 ... 80 °C |
| Product family        | FSTE-HD     |

Note: Spring force: Referred to 50 % of operating stroke Vertical loading: Maximum static loading Horizontal stress: The specification of the horizontal stress 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 62 1N D30 WI

Part no.:10.08.03.00148

Length L: 62 mm

Connection 1: Sliding block

Connection of suction cup, spring plunger: Contour D30-G1/2

Shape: angled

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### HTR-ST5 40x40 D30 WI

Part no...:10.08.03.00090

Connection 1: 40x40

Connection of suction cup, spring plunger: Contour D30-G1/2

Shape: angled



### HTR-ST5 50x50 D30 WI

Part no...:10.08.03.00091

Connection 1: 50x50

Connection of suction cup, spring plunger: Contour D30-G1/2

Shape: angled



### HTR-ST5 60x60 D30 WI

Part no...:10.08.03.00092

Connection 1: 60x60

Connection of suction cup, spring plunger: Contour D30-G1/2

Shape: angled

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### ST G3/8-AG 9 MS-V

Part no...:10.08.03.00159

Thread G1: G3/8"-M

Hose diameter (rec.) d: 9 mm

Material: Brass

Surface: nickel plated

Length L: 6 mm

Nominal diameter dn: 7.4 mm



### ST G3/8-AG 13 MS-V

Part no...:10.08.03.00160

Thread G1: G3/8"-M

Hose diameter (rec.) d: 13 mm

Material: Brass

Surface: nickel plated

Length L: 5.9 mm

Nominal diameter dn: 10 mm



### STV-GE G3/8-AG 8

Part no...:10.08.02.00237

Thread G1: G3/8"-M

Hose diameter: 8 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 14.6 mm

Length L: 17.4 mm

## Contact Schmalz

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### STV-GE G3/8-AG 10

Part no...:10.08.02.00252

Thread G1: G3/8"-M

Hose diameter: 10 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 16.5 mm

Length L: 20.1 mm



### STV-GE G3/8-AG 12

Part no...:10.08.02.00209

Thread G1: G3/8"-M

Hose diameter: 12 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 19.5 mm

Length L: 23.6 mm



### STV-GE G3/8-AG 14

Part no...:10.08.02.00211

Thread G1: G3/8"-M

Hose diameter: 14 mm

Material: Brass

Operating temperature: -20 ... 80 °C

External diameter D: 21.5 mm

Length L: 30.5 mm

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### STV-W G3/8-AG 8

Part no...:10.08.02.00236

Thread G1: G3/8"-M

Hose diameter: 8 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 23.7 mm



### STV-W G3/8-AG 10

Part no...:10.08.02.00255

Thread G1: G3/8"-M

Hose diameter: 10 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 35.1 mm



### STV-W G3/8-AG 12

Part no...:10.08.02.00163

Thread G1: G3/8"-M

Hose diameter: 12 mm

Material: Nickel plated

Operating temperature: -20 ... 80 °C

Length L: 34.1 mm

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### STV-WF G3/8-AG 8

Part no.:10.08.02.00234

Thread G1: G3/8"-M

Hose diameter: 8 mm

Material: Nickel plated

Operating temperature: -10 ... 70 °C

Length L: 26.7 mm



### STV-WF G3/8-AG 10

Part no.:10.08.02.00259

Thread G1: G3/8"-M

Hose diameter: 10 mm

Material: Nickel plated

Operating temperature: -10 ... 70 °C

Length L: 29.2 mm

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