

## Spring plunger

FSTA-HD G1/2-AG 50 VG

Part no.: 10.01.02.00890

<https://www.schmalz.co.jp/10.01.02.00890>

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



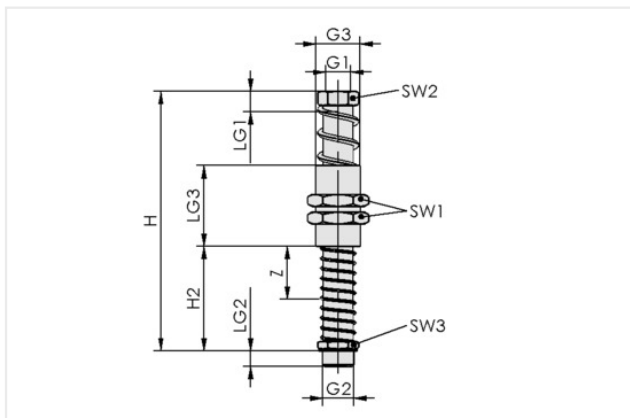
Suction cup connection: G1/2"-M

Vacuum connection: G3/8"-F

Spring stroke Z: 50 mm

Shape mounting elements: with anti-rotation guard

### Design Data



| Attribute  | Value     |
|------------|-----------|
| G1         | G3/8"-F   |
| G2         | G1/2"-M   |
| G3         | M30x1.5-M |
| H          | 176.50 mm |
| H2         | 70.30 mm  |
| LG1        | 12 mm     |
| LG2        | 10.50 mm  |
| LG3        | 53 mm     |
| SW1        | 36 mm     |
| SW2        | 24 mm     |
| SW3        | 24 mm     |
| Z (Stroke) | 50 mm     |

### Technical Data

| Attribute            | Value     |
|----------------------|-----------|
| Spring rate          | 1.81 N/mm |
| Spring pretension    | 3.95 N    |
| Spring force, center | 49.20 N   |
| Vertical load        | 4900 N    |
| Horizontal load      | 1200 N    |
| Weight               | 540 g     |

### Contact Schmalz

Schmalz K.K. | 3001-7 Odana-cho, Tsuzuki-ku, 224-0027 Yokohama, Japan | +81 45 565 5150 | [schmalz@schmalz.co.jp](mailto:schmalz@schmalz.co.jp)

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|                       |              |
|-----------------------|--------------|
| Operating temperature | 0 ... 80 ° C |
| Product family        | FSTA-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



**FLK G1/2-IG G1/2-AG**

Part no.: 10.01.03.00175

Thread G1: G1/2"-F

Thread G2: G1/2"-M

Operating temperature: 0 ... 70 ° C



**FLK G1/2-IG G1/2-AG V**

Part no.: 10.01.03.00207

Thread G1: G1/2"-F

Thread G2: G1/2"-M

Operating temperature: 0 ... 70 ° C

Shape mounting elements: Reinforced

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KGL G1/2-IG G1/2-AG

Part no.: 10.01.03.00111

Thread G1: G1/2"-F

Thread G2: G1/2"-M

Height H: 40 mm



HTR-STA 62 1N D30 W1

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



HTR-STS 40x40 D30 W1

Part no.: 10.08.03.00090

Connection 1: 40x40

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

Shape: angled

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**HTR-ST5 50x50 D30 W1**

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 W1**

Part no.: 10.08.03.00092

Connection 1: 60x60

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

Shape: angled



**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

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### 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



### 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

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### 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



### 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

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### 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



### 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

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**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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