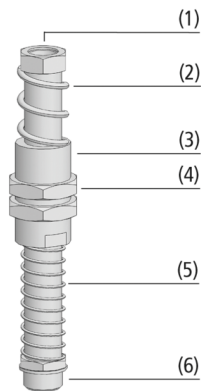


# Spring Plungers FSTA

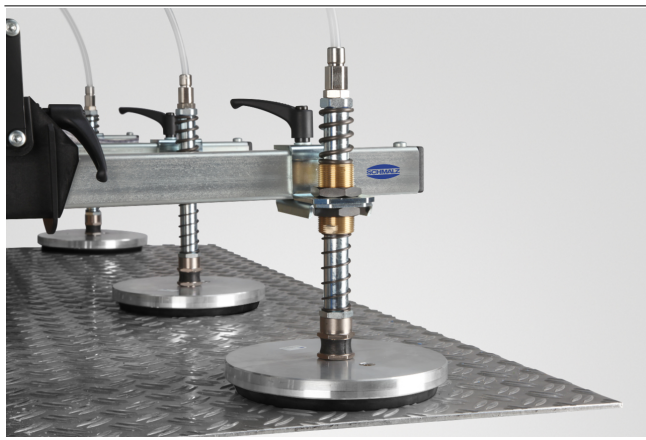
Stroke from 25 mm to 90 mm



Spring Plungers FSTA



System Design Spring Plungers FSTA



Mounting example spring plungers FSTA

## Suitability for Industry Specific Applications

### Applications

- Spring plunger with two damping springs for handling of workpieces with differing heights, such as curved metal sheets, etc.
- Handling of very sensitive workpieces (such as sheets of glass) without additional control functions to prevent damage, since the plunger ensures soft placement

### Design

- Spring plunger consisting of a high strength rod made of galvanized steel, guide sleeve (3) and upper (2) and lower (5) damping springs
- Plunger rod with integrated vacuum feed, always female connection thread (1)
- Connection thread for suction cup is always a male thread (6)
- Two lock nuts for mounting (4)

### Product Highlights

- With two damping springs optimized for sensitive workpieces; very good height compensation
- Upper damping spring with high spring constant prevents overstroke and ensures even load distribution

# Spring Plungers FSTA

Stroke from 25 mm to 90 mm

## Designation Code Spring Plungers FSTA

<b>FSTA</b>	–	<b>G1/2-AG</b>	–	<b>25</b>
1		2		3

### 1 – Abbreviated designation

Code	Version
FSTA	FSTA

### 2 – Suction cup connection

Code	Connection
G1/4-AG	G1/4-AG (AG = male (M))
G1/2-AG	G1/2-AG

### 3 – Plunger stroke

Code	Plunger stroke in mm
25...90	25 to 90

Spring plunger FSTA is delivered as a ready-to-connect product.

## Ordering Data Spring Plungers FSTA

Type	Part no.
FSTA G1/4-AG 25	10.01.02.00572
FSTA G1/4-AG 50	10.01.02.00573
FSTA G1/2-AG 25	10.01.02.00577
FSTA G1/2-AG 50	10.01.02.00578
FSTA G1/2-AG 90	10.01.02.00579

## Technical Data Spring Plungers FSTA

Type	Spring rate [N/mm]	Spring pretension [N]	Spring force center [N]*	Vertical load [N]**	Horizontal load [N]***	Anzugsdrehmoment (max) [Nm]	Weight [g]	Operating temperature [°C]
FSTA G1/4-AG 25	0.8	9	18	2,400	800	40	185	0 ... 80 °C
FSTA G1/4-AG 50	0.3	15	21	2,400	490	40	210	0 ... 80 °C
FSTA G1/2-AG 25	3.9	26	74	4,900	1,870	50	493	0 ... 80 °C
FSTA G1/2-AG 50	1.9	4	50	4,900	1,200	50	539	0 ... 80 °C
FSTA G1/2-AG 90	1.1	25	76	4,900	730	50	645	0 ... 80 °C

\*Referred to 50 % of operating stroke

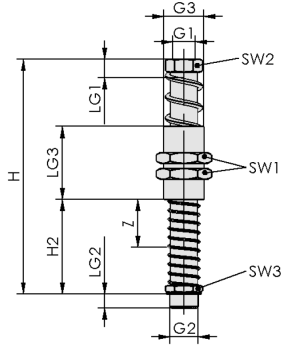
\*\*Maximum static loading

\*\*\*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.

# Spring Plungers FSTA

Stroke from 25 mm to 90 mm

## Design Data Spring Plungers FSTA



FSTA

## Spring Plungers FSTA

Stroke from 25 mm to 90 mm

### Design Data Spring Plungers FSTA

Type	G1	G2	G3	H [mm]	H2 [mm]	LG1 [mm]	LG2 [mm]	LG3 [mm]	SW1 [mm]	SW2 [mm]	SW3 [mm]	Z (Stroke) [mm]
FSTA G1/4-AG 25	G1/8"-F	G1/4"-M	M20x1.5-M	115	37	12	9	40	24	17	17	25
FSTA G1/4-AG 50	G1/8"-F	G1/4"-M	M20x1.5-M	144	67	12	9	40	24	17	17	50
FSTA G1/2-AG 25	G3/8"-F	G1/2"-M	M30x1.5-M	147	43	12	11	55	36	24	24	25
FSTA G1/2-AG 50	G3/8"-F	G1/2"-M	M30x1.5-M	177	73	12	11	55	36	24	24	50
FSTA G1/2-AG 90	G3/8"-F	G1/2"-M	M30x1.5-M	230	126	12	11	55	36	24	24	90