Spring Plungers FSTA

Stroke from 25 mm to 90 mm

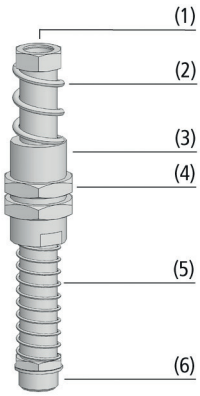
UNIVERSAL

Suitability for Industry Specific Applications

Spring Plungers FSTA

Applications

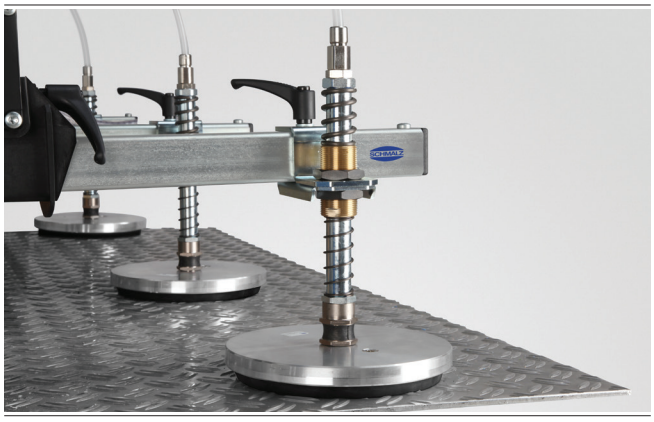
- Spring plunger with two damping springs for handling of workpieces with differing heights, such as curved metal sheets, etc.
- Handling of sensitive workpieces (such as sheets of glass) without additional control functions to prevent damage, since the plunger ensures soft placement



System Design Spring Plungers FSTA

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)
- Thread for suction cup is always a male thread (6)
- Two lock nuts for attachment (4)



Mounting example Spring Plungers FSTA

Our Highlights...

- Spring plunger with two damping springs
- Upper damping spring with high spring rate

Your Benefits...

- Soft placement of the suction cup on easily damaged workpieces; good compensation for varying workpiece heights
- Prevention of excessive stroke lengths; uniform load distribution

Spring Plungers FSTA

Stroke from 25 mm to 90 mm

Designation Code Spring Plungers FSTA

FSTA	–	G1/2-AG	–	25
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

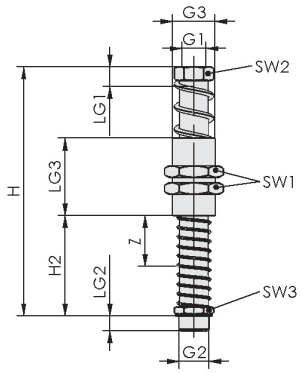
Type	Spring rate [N/mm]	Spring pretension [N/mm]	Spring force, center [N]*	Vertical load [N]**	Horizontal load [N]***	Weight [g]	Operating temperature [°C]
FSTA G1/4-AG 25	0.8	9	18	2,400	800	185	0 ... 80
FSTA G1/4-AG 50	0.3	15	21	2,400	490	210	0 ... 80
FSTA G1/2-AG 25	3.9	26	74	4,900	1,870	493	0 ...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

*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

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