

Spring plungers

Spring plunger FSTA



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Our highlights...

- Spring plunger with lower damping spring
- Upper damping spring with spring rate

Your advantages...

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

Applications

- Handling of workpieces with differing heights (such as curved metal sheets, etc.)
- Handling of easily damaged workpieces (such as sheets of glass) without additional control functions to prevent damage, since the plunger ensures soft placement

Construction

- Spring plunger consisting of a high-strength steel rod, guide sleeve and upper and lower damping springs
- Plunger rod with integrated vacuum feed (connection thread at top)
- Thread for suction pad is always a male thread
- Thread for vacuum line is always a female thread

Suitability for branch-specific applications



Designation code Spring plunger FSTA

Short designation	Suction-pad connection	Plunger stroke in mm
Example: FSTA	G1/4-AG	25
FSTA	G1/4-AG (AG = male) G1/2-AG	25 to 90

Ordering data Spring plunger FSTA

Type*	Plunger stroke in mm*		
	25	50	90
FSTA G1/4	10.01.02.00572	10.01.02.00573	-
FSTA G1/2	10.01.02.00577	10.01.02.00578	10.01.02.00579

*Commendation: To raise the lifetime in continuous duty, prevent the maximal slide stroke

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Technical data Spring plunger FSTA

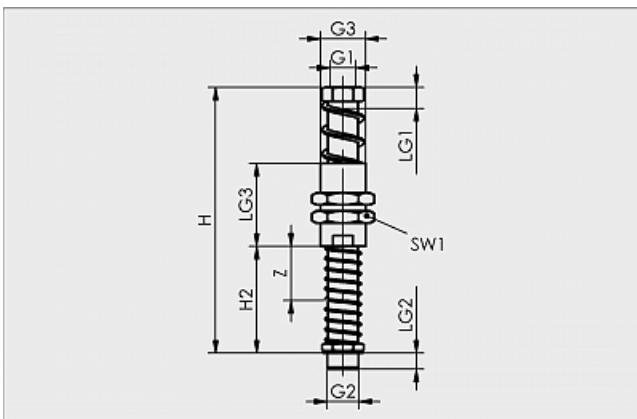
Type	Spring rate [N/mm]	Spring pre-tension [N]	Spring force [N]*	Vertical load [N]**	Horizontal load [N]***	Weight [g]	Operating temperature [°C]
FSTA G1/4-AG 25	0,711	8,95	17,8	2400	800	185	0...80
FSTA G1/4-AG 50	0,262	14,10	20,6	2400	490	210	0...80
FSTA G1/2-AG 25	3,828	25,65	73,5	4900	1870	493	0...80
FSTA G1/2-AG 50	1,810	3,95	49,2	4900	1200	539	0...80
FSTA G1/2-AG 90	1,072	24,38	75,3	4900	730	645	0...80

*Referred to 50% of operating stroke

**Maximum static loading

***The horizontal loading is a maximum static loading and has a negative effect on the in and out movement in a horizontal position

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FSTA 1/4 to 1/2

Type	Dimensions in mm									
	G1	G2	G3	H	H2	LG1	LG2	LG3	SW1	Z (Stroke)
FSTA G1/4-AG 25	G1/8"-F	G1/4"-M	M20x1.5-M	114,5	37,0	12	8,5	40	24	25
FSTA G1/4-AG 50	G1/8"-F	G1/4"-M	M20x1.5-M	144,0	66,5	12	8,5	40	24	50
FSTA G1/2-AG 25	G3/8"-F	G1/2"-M	M30x1.5-M	146,5	42,5	12	10,5	55	36	25
FSTA G1/2-AG 50	G3/8"-F	G1/2"-M	M30x1.5-M	176,5	72,5	12	10,5	55	36	50
FSTA G1/2-AG 90	G3/8"-F	G1/2"-M	M30x1.5-M	229,5	125,5	12	10,5	55	36	90