

Spring Plunger

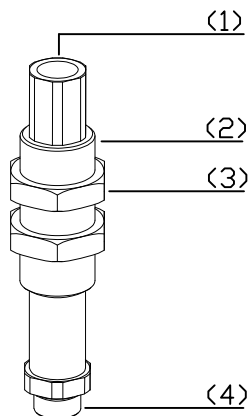
Spring Plunger MTI

Stroke: 10mm to 50mm

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System design Spring Plunger MTI



Introduction and application

- ◆ Spring plunger with two damping springs for handling of workpieces with differing heights, such as curved metal sheets, etc.
- ◆ Handle pressure sensitive workpieces (such as glass) to ensure flexible contact.
- ◆ Particularly suitable for handling tasks in the automotive sector

Design

- ◆ Spring plunger consisting of high strength stainless steel rod, brass sleeve with integrated bearing (2) and damping spring
- ◆ The vacuum channel at the upper end of the Plunger is provided with an internal thread connection (1)
- ◆ The threads of the connecting sucker are all external threads (4)
- ◆ Surface polishing treatment; The surface of the buffer support rod with rotating function has special coating, which can reach to the best sliding effect
- ◆ Two lock nuts for attachment (3)

Ordering Guide Spring Plunger MTI

Type	Connecting thread of suction cup	Buffer stroke[mm]	Sleeve thread	Ordering Data
MTI A-10-M8	A	10	M8	90.04.01.00031
MTI M5-AG-10-M8	M5-AG	10	M8	90.04.01.00030
MTI A-15-M8	A	15	M8	90.04.01.00029
MTI M5-AG-15-M8	M5-AG	15	M8	90.04.01.00028
MTI A-25-M8	A	25	M8	90.04.01.00027
MTI M5-AG-25-M8	M5-AG	25	M8	90.04.01.00026
MTI G1/8-AG-20-M16	G1/8-AG	20	M16	90.04.01.00017
MTI G1/8-AG-30-M16	G1/8-AG	30	M16	90.04.01.00018
MTI G1/8-AG-50-M16	G1/8-AG	50	M16	90.04.01.00148
MTI G1/4-AG-20-M18	G1/4-AG	20	M18	90.04.01.00019
MTI G1/4-AG-30-M18	G1/4-AG	30	M18	90.04.01.00020
MTI G1/4-AG-50-M18	G1/4-AG	50	M18	90.04.01.00021
MTI G3/8-AG-20-M18	G3/8-AG	20	M18	90.04.01.00022
MTI G3/8-AG-30-M18	G3/8-AG	30	M18	90.04.01.00023
MTI G3/8-AG-50-M18	G3/8-AG	50	M18	90.04.01.00024

Note:AG(external thread) Type A joint

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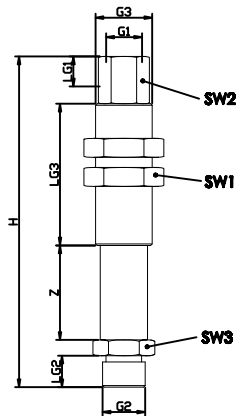
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Technical Data Spring Plunger MTI

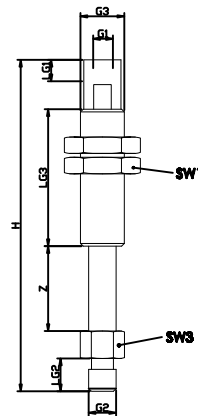
Type	Spring load rate [N/mm]	Spring pretension [N]	Spring force [N]	Vertical load [N]	Horizontal load [N]	Weight [g]	Operating temperature [°C]
MTI A-10-M8	0.088	0.24	0.33	1000	700	14	0...80
MTI M5-AG-10-M8	0.088	0.24	0.33	1000	700	14	0...80
MTI A-15-M8	0.088	0.21	0.35	1000	700	16.5	0...80
MTI M5-AG-15-M8	0.088	0.21	0.35	1000	700	16.5	0...80
MTI A-25-M8	0.088	0.12	0.34	1000	700	20	0...80
MTI M5-AG-25-M8	0.088	0.12	0.34	1000	700	20	0...80
MTI G1/8-AG-20-M16	0.11	2.2	4.5	1000	700	60	0...80
MTI G1/8-AG-30-M16	0.11	2.3	3.8	1000	700	70	0...80
MTI G1/8-AG-50-M16	0.11	2.1	3.6	1000	700	90	0...80
MTI G1/4-AG-20-M18	0.26	5.2	6.8	1000	700	120	0...80
MTI G1/4-AG-30-M18	0.26	4.3	5.5	1000	700	135	0...80
MTI G1/4-AG-50-M18	0.26	3.1	4.3	1000	700	170	0...80
MTI G3/8-AG-20-M18	0.26	5.2	6.8	1000	700	130	0...80
MTI G3/8-AG-30-M18	0.26	4.3	5.5	1000	700	145	0...80
MTI G3/8-AG-50-M18	0.26	3.1	4.3	1000	700	180	0...80

Design Data Spring Plunger MTI

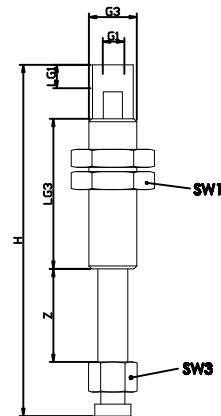
MTI G1/8 to G3/8



MTI M5



MTI A



Type	Dimensions[mm]											Z (Stroke)
	G1	G2	G3	H	LG1	LG2	LG3	SW1	SW2	SW3		
MTI A-10-M8	M5-F	-	M8X1-M	50.5	4	-	22	12	-	7	10	
MTI M5-AG-10-M8	M5-F	M5-M	M8X1-M	54.5	4	8	22	12	-	7	10	
MTI A-15-M8	M5-F	-	M8X1-M	58.5	4	-	25	12	-	7	15	
MTI M5-AG-15-M8	M5-F	M5-M	M8X1-M	62.5	4	8	25	12	-	7	15	
MTI A-25-M8	M5-F	-	M8X1-M	78.5	4	-	35.5	12	-	7	25	
MTI M5-AG-25-M8	M5-F	M5-M	M8X1-M	82.5	4	8	35.5	12	-	7	25	
MTI G1/8-AG-20-M16	G1/8"-F	G1/8"-M	M16X1	80	10	6	35	20	12	14	20	
MTI G1/8-AG-30-M16	G1/8"-F	G1/8"-M	M16X1	100	10	6	45	20	12	14	30	
MTI G1/8-AG-50-M16	G1/8"-F	G1/8"-M	M16X1	100	10	6	65	20	12	14	50	
MTI G1/4-AG-20-M18	G1/8"-F	G1/4"-M	M18X1	85	12	10	35	22	14	17	20	
MTI G1/4-AG-30-M18	G1/8"-F	G1/4"-M	M18X1	105	12	10	45	22	14	17	30	
MTI G1/4-AG-50-M18	G1/8"-F	G1/4"-M	M18X1	145	12	10	65	22	14	17	50	
MTI G3/8-AG-20-M18	G1/8"-F	G3/8"-M	M18X1	85	12	10	35	22	14	21	20	
MTI G3/8-AG-30-M18	G1/8"-F	G3/8"-M	M18X1	105	12	10	45	22	14	21	30	
MTI G3/8-AG-50-M18	G1/8"-F	G3/8"-M	M18X1	145	12	10	65	22	14	21	50	