

# Spring Plunger

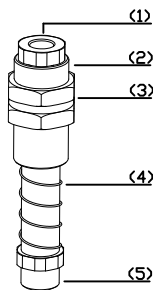
## Spring Plunger MTE-HD

Stroke: 15 to 90mm

Spring Plunger MTE-HD



System design Spring Plungers MTE-HD



### Introduction and application

- ◆ Spring plunger for handling of workpieces with differing heights.(such as curved metal sheets, etc.)
- ◆ Handle pressure sensitive workpieces (such as glass) to ensure flexible contact.
- ◆ For use under rough operating conditions

### Design

- ◆ Spring plunger consisting of high strength stainless steel rod, brass sleeve with integrated bearing (2) and damping spring (4)
- ◆ Plunger rod with integrated vacuum feed, always female connection thread (1)
- ◆ For models with anti-rotation power, the stainless steel and bearing sleeve adopt matching planar structure.
- ◆ For the thread (5) connecting the suction cup, the maximum size of the internal thread joint is usually M5 and the external thread have different specifications.
- ◆ Two lock nuts (4) for attachment

### Technical Data And Ordering Data Spring Plunger MTE-HD

Type	Spring load rate [ N/mm ]	Spring pretension [ N ]	Spring force [ N ]	Vertical load [ N ]	Horizontal load [ N ]	Weight [ g ]	Operating temperature [ °C ]	Ordering Data
MTE-HD G1/8-AG 15	0.221	3.53	5.19	3700	385	80	0...80	90.04.01.00065
MTE-HD G1/8-AG 15 VG	0.221	3.53	5.19	3700	385	80	0...80	90.04.01.00066
MTE-HD G1/8-AG 25	0.143	3.57	5.36	3700	283	90	0...80	90.04.01.00067
MTE-HD G1/8-AG 25 VG	0.143	3.57	5.36	3700	283	90	0...80	90.04.01.00068
MTE-HD G1/8-AG 50	0.097	2.92	5.34	3700	173	110	0...80	90.04.01.00069
MTE-HD G1/8-AG 50 VG	0.097	2.92	5.34	3700	173	110	0...80	90.04.01.00070
MTE-HD G1/4-AG 25	0.711	6.47	15.36	2400	747	145	0...80	90.04.01.00071
MTE-HD G1/4-AG 25 VG	0.711	6.47	15.36	2400	747	145	0...80	90.04.01.00072
MTE-HD G1/4-AG 50	0.452	1.40	12.70	2400	466	175	0...80	90.04.01.00073
MTE-HD G1/4-AG 50 VG	0.452	1.40	12.70	2400	466	175	0...80	90.04.01.00074
MTE-HD G1/4-AG 75	0.262	5.38	15.20	2400	340	190	0...80	90.04.01.00075
MTE-HD G1/4-AG 75 VG	0.262	5.38	15.20	2400	340	190	0...80	90.04.01.00076
MTE-HD G3/8-AG 25	3.829	25.64	73.50	4800	1870	400	0...80	90.04.01.00077
MTE-HD G3/8-AG 25 VG	3.829	25.64	73.50	4800	1870	400	0...80	90.04.01.00078
MTE-HD G3/8-AG 75	1.072	37.20	77.40	4800	800	530	0...80	90.04.01.00079
MTE-HD G3/8-AG 75 VG	1.072	37.20	77.40	4800	800	530	0...80	90.04.01.00080
MTE-HD G3/8-AG 90	1.072	24.38	75.30	4800	730	545	0...80	90.04.01.00081
MTE-HD G3/8-AG 90 VG	1.072	24.38	75.30	4800	730	545	0...80	90.04.01.00082
MTE-HD G1/2-AG 25	3.289	25.64	73.50	4900	1870	400	0...80	90.04.01.00083
MTE-HD G1/2-AG 25 VG	3.289	25.64	73.50	4900	1870	400	0...80	90.04.01.00084
MTE-HD G1/2-AG 75	1.072	37.20	77.40	4900	800	530	0...80	90.04.01.00085
MTE-HD G1/2-AG 75 VG	1.072	37.20	77.40	4900	800	530	0...80	90.04.01.00086
MTE-HD G1/4-AG 90 VG	0.262	1.49	13.28	1500	300	210	0...80	90.04.01.00087
MTE-HD G1/2-AG 90	1.072	24.38	75.30	4900	730	544	0...80	90.04.01.00088
MTE-HD G1/2-AG 90 VG	1.072	24.38	75.30	4900	730	545	0...80	90.04.01.00089

Note:HD Heavy Duty AG External Thread VG with Anti-rotation Function

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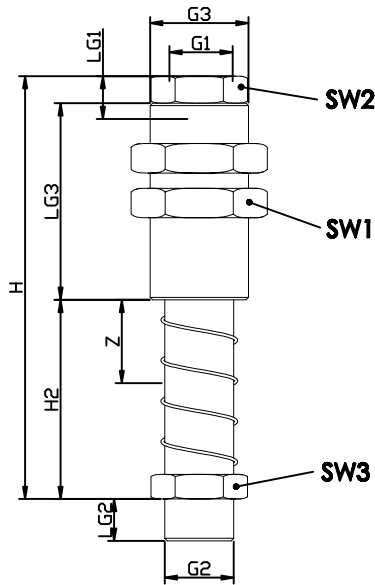
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### Design Data Spring Plunger MTE-HD

MTE-HD(-VG)



Type	Dimensions[mm]											
	G1	G2	G3	H	H2	LG1	LG2	LG3	SW1	SW2	SW3	Z (Stroke)
MTE-HD G1/8-AG 15	G1/8"-F	G1/8"-M	M16 × 1-M	72.5	28.5	8	6.5	30	20	12	14	15
MTE-HD G1/8-AG 15 VG	G1/8"-F	G1/8"-M	M16 × 1-M	72.5	28.5	8	6.5	30	20	12	14	15
MTE-HD G1/8-AG 25	G1/8"-F	G1/8"-M	M16 × 1-M	85.5	41.5	8	6.5	30	20	12	14	25
MTE-HD G1/8-AG 25 VG	G1/8"-F	G1/8"-M	M16 × 1-M	85.5	41.5	8	6.5	30	20	12	14	25
MTE-HD G1/8-AG 50	G1/8"-F	G1/8"-M	M16 × 1-M	116.5	72.5	8	6.5	30	20	12	14	50
MTE-HD G1/8-AG 50 VG	G1/8"-F	G1/8"-M	M16 × 1-M	116.5	72.5	8	6.5	30	20	12	14	50
MTE-HD G1/4-AG 25	G1/8"-F	G1/4"-M	M20 × 1.5-M	86.0	40.5	12	8.5	40	24	17	17	25
MTE-HD G1/4-AG 25 VG	G1/8"-F	G1/4"-M	M20 × 1.5-M	86.0	40.5	12	8.5	40	24	17	17	25
MTE-HD G1/4-AG 50	G1/8"-F	G1/4"-M	M20 × 1.5-M	115.5	70.0	12	8.5	40	24	17	17	50
MTE-HD G1/4-AG 50 VG	G1/8"-F	G1/4"-M	M20 × 1.5-M	115.5	70.0	12	8.5	40	24	17	17	50
MTE-HD G1/4-AG 75	G1/8"-F	G1/4"-M	M20 × 1.5-M	145.5	100.0	12	8.5	40	24	17	17	75
MTE-HD G1/4-AG 75 VG	G1/8"-F	G1/4"-M	M20 × 1.5-M	145.0	99.5	12	8.5	40	24	17	17	75
MTE-HD G3/8-AG 25	G3/8"-F	G3/8"-M	M30 × 1.5-M	106.0	41.0	12	10.5	53	36	24	24	25
MTE-HD G3/8-AG 25 VG	G3/8"-F	G3/8"-M	M30 × 1.5-M	106.0	41.0	12	10.5	53	36	24	24	25
MTE-HD G3/8-AG 75	G3/8"-F	G3/8"-M	M30 × 1.5-M	177.0	112.0	12	10.5	53	36	24	24	75
MTE-HD G3/8-AG 75 VG	G3/8"-F	G3/8"-M	M30 × 1.5-M	177.0	112.0	12	10.5	53	36	24	24	75
MTE-HD G3/8-AG 90	G3/8"-F	G3/8"-M	M30 × 1.5-M	189.0	124.0	12	10.5	53	36	24	24	90
MTE-HD G3/8-AG 90 VG	G3/8"-F	G3/8"-M	M30 × 1.5-M	189.0	124.0	12	10.5	53	36	24	24	90
MTE-HD G1/2-AG 25	G3/8"-F	G1/2"-M	M30 × 1.5-M	105.5	40.5	12	10.5	53	36	24	24	25
MTE-HD G1/2-AG 25 VG	G3/8"-F	G1/2"-M	M30 × 1.5-M	105.5	40.5	12	10.5	53	36	24	24	25
MTE-HD G1/2-AG 75	G3/8"-F	G1/2"-M	M30 × 1.5-M	176.5	111.5	12	10.5	53	36	24	24	75
MTE-HD G1/2-AG 75 VG	G3/8"-F	G1/2"-M	M30 × 1.5-M	176.5	111.5	12	10.5	53	36	24	24	75
MTE-HD G1/4-AG 90 VG	G1/8"-F	G1/4"-M	M20 × 1.5-M	160.0	114.3	12	8.5	40	24	17	17	90
MTE-HD G1/2-AG 90	G3/8"-F	G1/2"-M	M30 × 1.5-M	188.5	123.5	12	10.5	53	36	24	24	90
MTE-HD G1/2-AG 90 VG	G3/8"-F	G1/2"-M	M30 × 1.5-M	188.5	123.5	12	10.5	53	36	24	24	90