

Spring plungers

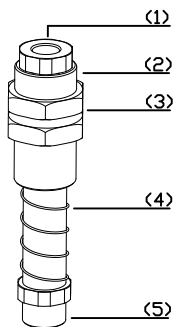
Spring Plungers MTE

Stroke: 15mm to 90mm

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System design Spring Plungers MTE



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.

Design

- ◆ Spring plunger consisting of a high strength rod made of galvanized steel, guide sleeve (2) and lower damping springs (4)
- ◆ Plunger rod with integrated vacuum feed, always female connection thread (1)
- ◆ The thread of the connecting suction cup (5), and the external threaded joint has different specifications.
- ◆ Two locking nuts (3) for reinforcement



Ordering Guide Spring Plungers MTE

Type	Connecting thread of suction cups	cushioning stroke [mm]	Sleeve thread	additional function	Ordering Data
MTE G1/8-AG-15-M16	G1/8-AG	15	M16		90.04.01.00002
MTE G1/8-AG-15-M16-VG	G1/8-AG	15	M16	VG	90.04.01.00003
MTE G1/8-AG-25-M16	G1/8-AG	25	M16		90.04.01.00004
MTE G1/8-AG-50-M16	G1/8-AG	50	M16		90.04.01.00005
MTE G1/8-AG-50-M16-VG	G1/8-AG	50	M16	VG	90.04.01.00006
MTE G1/4-AG-25-M20	G1/4-AG	25	M20		90.04.01.00007
MTE G1/4-AG-25-M20-VG	G1/4-AG	25	M20	VG	90.04.01.00008
MTE G1/4-AG-50-M20	G1/4-AG	50	M20		90.04.01.00009
MTE G1/4-AG-75-M20	G1/4-AG	75	M20		90.04.01.00010
MTE G1/4-AG-75-M20-VG	G1/4-AG	75	M20	VG	90.04.01.00011
MTE G3/8-AG-30-M22	G3/8-AG	30	M22		90.04.01.00012
MTE G3/8-AG-50-M22	G3/8-AG	50	M22		90.04.01.00013
MTE G3/8-AG-50-M22-VG	G3/8-AG	50	M22	VG	90.04.01.00154
MTE G1/2-AG-25-M30	G1/2-AG	25	M30		90.04.01.00014
MTE G1/2-AG-75-M30	G1/2-AG	75	M30		90.04.01.00015
MTE G1/2-AG-90-M30	G1/2-AG	90	M30		90.04.01.00016

Note:AG(external thread) VG (with anti-rotation function)

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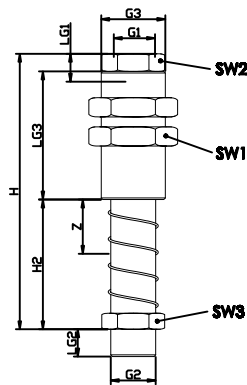
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Technical Data Spring Plungers MTE

Type	Spring rate [N/mm]	Spring pretension [N]	Spring force [N]	Vertical load [N]	Horizontal load [N]	Weight [g]	Operating temperature [°C]
MTE G1/8-AG-15-M16	0.221	3.53	5.19	3700	385	80	0...80
MTE G1/8-AG-15-M16-VG	0.221	3.53	5.19	3700	385	80	0...80
MTE G1/8-AG-25-M16	0.143	3.57	5.36	3700	283	90	0...80
MTE G1/8-AG-50-M16	0.097	2.92	5.34	3700	173	110	0...80
MTE G1/8-AG-50-M16-VG	0.097	2.92	5.34	3700	173	110	0...80
MTE G1/4-AG-25-M20	0.711	6.47	15.36	2400	747	145	0...80
MTE G1/4-AG-25-M20-VG	0.711	6.47	15.36	2400	747	144	0...80
MTE G1/4-AG-50-M20	0.452	1.40	12.70	2400	466	175	0...80
MTE G1/4-AG-75-M20	0.262	5.38	15.20	2400	340	190	0...80
MTE G1/4-AG-75-M20-VG	0.262	5.38	15.20	2400	340	202	0...80
MTE G3/8-AG-30-M22	0.985	7.72	28.8	2800	360	174	0...80
MTE G3/8-AG-50-M22	0.738	5.77	31.6	2800	360	194	0...80
MTE G3/8-AG-50-M22-VG	0.738	5.77	31.6	2800	360	194	0...80
MTE G1/2-AG-25-M30	3.829	25.64	73.50	4900	1870	400	0...80
MTE G1/2-AG-75-M30	1.072	37.20	77.40	4900	800	530	0...80
MTE G1/2-AG-90-M30	1.072	24.38	75.30	4900	730	544	0...80

Technical Data Spring Plungers MTE

MTE-G1/8 to G1/2(-VG)



Type	Dimensions[mm]												Z (Stroke)
	G1	G2	G3	H	H2	LG1	LG2	LG3	SW1	SW2	SW3		
MTE G1/8-AG-15-M16	G1/8"-F	G1/8"-M	M16x1-M	73.5	29.5	8.0	6.5	30	20	12	14	15	
MTE G1/8-AG-15-M16-VG	G1/8"-F	G1/8"-M	M16x1-M	73.5	28.5	8.0	6.5	30	20	12	14	15	
MTE G1/8-AG-25-M16	G1/8"-F	G1/8"-M	M16x1-M	86.5	42.5	8.0	6.5	30	20	12	14	25	
MTE G1/8-AG-50-M16	G1/8"-F	G1/8"-M	M16x1-M	117.5	73.5	8.0	6.5	30	20	12	14	50	
MTE G1/8-AG-50-M16-VG	G1/8"-F	G1/8"-M	M16x1-M	117.5	72.5	8.0	6.5	30	20	12	14	50	
MTE G1/4-AG-25-M20	G1/8"-F	G1/4"-M	M20x1.5-M	86.0	40.5	13.0	8.5	40	24	17	17	25	
MTE G1/4-AG-25-M20-VG	G1/8"-F	G1/4"-M	M20x1.5-M	86.0	40.5	13.0	8.5	40	24	17	17	25	
MTE G1/4-AG-50-M20	G1/8"-F	G1/4"-M	M20x1.5-M	115.5	70.0	13.0	8.5	40	24	17	17	50	
MTE G1/4-AG-75-M20	G1/8"-F	G1/4"-M	M20x1.5-M	145.0	99.5	13.0	8.5	40	24	17	17	75	
MTE G1/4-AG-75-M20-VG	G1/8"-F	G1/4"-M	M20x1.5-M	145.0	99.5	13.0	8.5	40	24	17	17	75	
MTE G3/8-AG-30-M22	G1/4"-F	G3/8"-M	M22x1.5-M	92.5	47	13.0	8.5	40	27	19	19	30	
MTE G3/8-AG-50-M22	G1/4"-F	G3/8"-M	M22x1.5-M	112.5	67	13.0	8.5	40	27	19	19	50	
MTE G3/8-AG-50-M22-VG	G1/4"-F	G3/8"-M	M22x1.5-M	112.5	67	13.0	8.5	40	27	19	19	50	
MTE G1/2-AG-25-M30	G3/8"-F	G1/2"-M	M30x1.5-M	105.5	42.5	13.0	10.5	55	36	24	24	25	
MTE G1/2-AG-75-M30	G3/8"-F	G1/2"-M	M30x1.5-M	176.5	113.5	13.0	10.5	55	36	24	24	75	
MTE G1/2-AG-90-M30	G3/8"-F	G1/2"-M	M30x1.5-M	188.5	125.5	13.0	10.5	55	36	24	24	90	