

Robot Geek Solenoid Strength Chart

*All preload and Stroke lengths are in millimeters

*Measurements are guidelines and not guaranteed. Many variables determine the final strength of a solenoid such as power supply type, angle of load, and individual solenoid physical properties. These are hobby solenoids and are intended for hobby level applications.

Metric - Grams

Small Solenoid (ASM-SOL-SM)				
Preload	0	2	3.5	
Stroke	5	3	1.5	
6V	70	120	160	
12V	320	500	700	

Medium Solenoid (ASM-SOL-MD)				
Preload	0	2.5	5.5	
Stroke	7	4.5	1.5	
6V	70	150	250	
12V	500	700	900	
24V	1300	1600	1800	

Large Solenoid (ASM-SOL-LG)				
Preload	0	2.5	5	8
Stroke	12	9.5	7	4
12V	70	300	600	1000
24V	1300	1900	2468	3468

Metric - Kilograms

Small Solenoid (ASM-SOL-SM)				
Preload	0	2	3.5	
Stroke	5	3	1.5	
6V	0.07	0.12	0.16	
12V	0.32	0.50	0.70	

Medium Solenoid (ASM-SOL-MD)				
Preload	0	2.5	5.5	
Stroke	7	4.5	1.5	
6V	0.07	0.15	0.25	
12V	0.50	0.70	0.90	
24V	1.30	1.60	1.80	

Large Solenoid (ASM-SOL-LG)				
Preload	0	2.5	5	8
Stroke	12	9.5	7	4
12V	0.07	0.30	0.60	1.00
24V	1.30	1.90	2.47	3.47

Imperial - Ounces

Small Solenoid (ASM-SOL-SM)				
Preload	0	2	3.5	
Stroke	5	3	1.5	
6V	2.47	4.23	5.64	
12V	11.29	17.64	24.69	

Medium Solenoid (ASM-SOL-MD)				
Preload	0	2.5	5.5	
Stroke	7	4.5	1.5	
6V	2.47	5.29	8.82	
12V	17.64	24.69	31.75	
24V	45.85	56.44	63.49	

Large Solenoid (ASM-SOL-LG)				
Preload	0	2.5	5	8
Stroke	12	9.5	7	4
12V	2.47	10.58	21.16	35.27
24V	45.85	67.02	87.05	122.33

Imperial - Pounds

Small Solenoid (ASM-SOL-SM)				
Preload	0	2	3.5	
Stroke	5	3	1.5	
6V	0.15	0.26	0.35	
12V	0.71	1.10	1.54	

Medium Solenoid (ASM-SOL-MD)				
Preload	0	2.5	5.5	
Stroke	7	4.5	1.5	
6V	0.15	0.33	0.55	
12V	1.10	1.54	1.98	
24V	2.87	3.53	3.97	

Large Solenoid (ASM-SOL-LG)				
Preload	0	2.5	5	8
Stroke	12	9.5	7	4
12V	0.15	0.66	1.32	2.20
24V	2.87	4.19	5.44	7.65