



Data Sheet

Tubular Solenoid Performance

RS stock numbers 431-7504 to 431-7627

Nominal Voltage is that which can be applied continuously (100% duty). Considerably higher voltages may be used for reduced periods indicated by reduced % duty and maximum pulse duration. Duty is based on Power (Watts, or $V \times I$) which increases to the square of the applied voltage.							
Solenoid dia	Nominal Voltage (100% duty)	2x Wattage, 1.41 x Nominal Voltage (50% Duty)		4 x Wattage 2 x Nominal Voltage (25% Duty)		10 x Wattage 3.16 x Nominal Voltage (10% Duty)	
At "home" position (ie magnetically centred)	Holding Force (Newtons)	Holding force (Newtons)	Max pulse duration (secs)	Holding Force (Newtons)	Max Pulse Duration (Secs)	Holding Force (Newtons)	Max Pulse Duration (Secs)
13mm	4	5.6	50	8	5	12.6	2
19mm	12.8	18	230	25.4	25	40.4	6
25mm	29.4	41.6	360	58.8	32	93	8
At 2mm from home position							
13mm	1	1.4	50	2	5	3.1	2
19mm	4.3	6	230	8.5	25	13.5	6
25mm	14	19.8	360	28	32	44.3	8
At 5mm from home position							
13mm	0.5	0.7	50	1	5	1.6	2
19mm	2	2.8	230	4	25	6.3	6
25mm	6	8.5	360	12	32	19	8

All figures are approximate and for guidance only

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