Size 51M-STA® Pull Tubular Solenoids — 13 mm Dia. x 27 mm

Part Number: 195222 - X XX

All products are RoHS Compliant

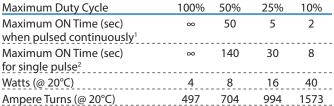
Coil AWG Number (from performance chart below)

Plunger Configurations and anti-rotation flat on mounting

- 1 Flat face plunger without anti-rotation flat
- 2 60° plunger without anti-rotation flat
- 5 Flat face plunger with anti-rotation flat
- 6 60° plunger with anti-rotation flat

VDC Battery

Performance











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awg (0XX)³	Resistance (@20°C)	# Turns⁴	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)	
27	1.43	306	2.4	3.4	4.8	7.6	
28	1.95	342	2.8	3.9	5.6	8.8	
29	3.84	508	3.9	5.5	7.8	12.4	
30	5.29	572	4.6	6.5	9.2	14.5	
31	9.56	795	6.2	8.8	12.4	19.6	
32	16.54	1068	8.1	11.5	16.3	25.7	
33	22.60	1194	9.5	13.4	19.0	30.0	
34	37.41	1547	12.2	17.3	24.0	39.0	
35	60.71	1976	15.6	22.0	31.0	49.0	
36	96.19	2475	19.6	28.0	39.0	62.0	
37	141.93	3060	23.8	33.7	47.6	75.3	

- ¹ Continuously pulsed at stated watts and duty cycle
- ² Single pulse at stated watts (with coil at ambient room temperature 20°C)
- ³ Other coil awg sizes available please consult factory
- ⁴ Reference number of turns

Specifications

Dielectric Strength	500 VRMS
Recommended Minimum Heat Sink	Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminium plate measuring 51 mm square by 3.2 mm thick
Coil Resistance	±5% tolerance

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Holding Force	Flat Face: 5.3 N @ 20°C
	60°: 4.0 N @ 20°C

Weight 24.7 g Plunger Weight 4.5 g

How to Order

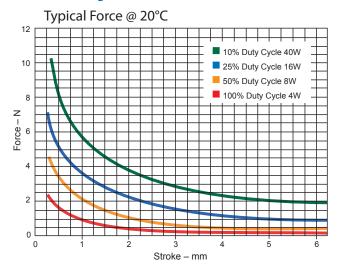
Add the plunger configuration, anti-rotation flat number, and the coil awg number to the part number (for example: to order a unit with a 60° plunger configuration without an anti-rotation flat rated for 4.8 VDC at 25% duty cycle, specify 195222-227.

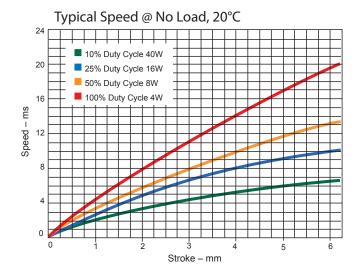
Please see www.johnsonelectric.com for our list of stock products available through distribution.

All specifications subject to change without notice.

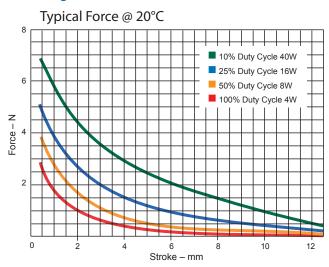
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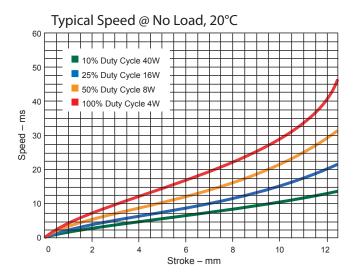
Flat Face Plunger





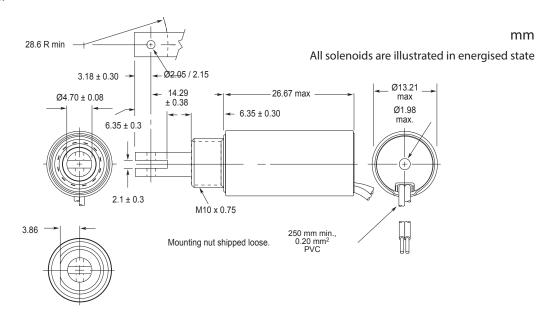
60° Plunger





Force values for reference only.

Dimensions



Ledex Solenoids www.johnsonelectric.com 1.937.454.2345 Fax: 1.937.898.8624