

STA® Pull Tubular Solenoids — 1/2" Dia. x 2"

Part Number: 151092 - X XX

All catalog products manufactured after April 1, 2006 are RoHS Compliant

Coil AWG Number
(from performance chart below)

Plunger Configurations and anti-rotation flat on mounting
2 60° plunger without anti-rotation flat
6 60° plunger with anti-rotation flat

- Well-suited for battery operation.



See the "Battery Operated Solenoids" section for complete information.

Performance

Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (sec) when pulsed continuously ¹	∞	124	22	6
Maximum ON Time (sec) for single pulse ²	∞	160	55	15
Watts (@ 20°C)	5.5	11	22	55
Ampere Turns (@ 20°C)	852	1154	1632	2805

Coil Data

avg (0XX) ³	Resistance (@20°C)	# Turns ⁴	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
27	2.03	456	3.5	4.7	6.7	11.5
28	4.57	765	5.2	7.1	10.0	17.2
29	6.30	855	6.1	8.3	11.8	20.2
30	13.00	1276	8.6	11.7	16.5	28.3
31	17.70	1430	10.3	14.0	19.7	33.9
32	30.45	1985	13.5	18.3	25.9	44.5
33	45.10	2350	16.4	22.3	31.5	54.1
34	72.70	2998	20.9	28.3	40.0	68.7
35	118.00	3850	26.7	36.1	51.1	87.8
36	173.00	4510	32.2	43.6	61.7	106.0

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

Specifications

Dielectric Strength	500 VRMS
Holding Force	60°: 1.84 lb (8.19 N) at 20°C
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 aluminum plate measuring 2" square by 1/8" thick
Coil Resistance	±5% tolerance
Coil Termination	10" minimum lead wires
Weight	1.5 oz (42.5 gms)
Plunger Weight	0.3 oz (8.5 gms)
Dimensions	Ø0.52" x 2.05" L (see drawing on the following page)

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 6.7 VDC at 25% duty cycle, specify 151092-227).

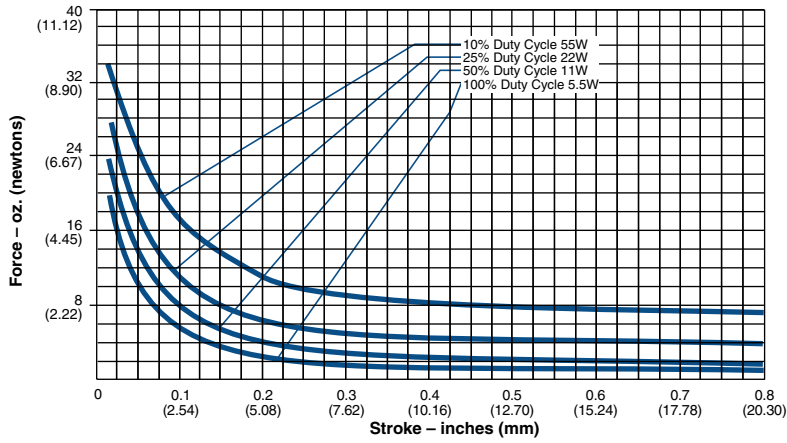
Please see www.ledex.com (click on Stock Products tab) for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

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Pull Tubular Solenoid – 1/2" dia. x 2" – 60° Plunger

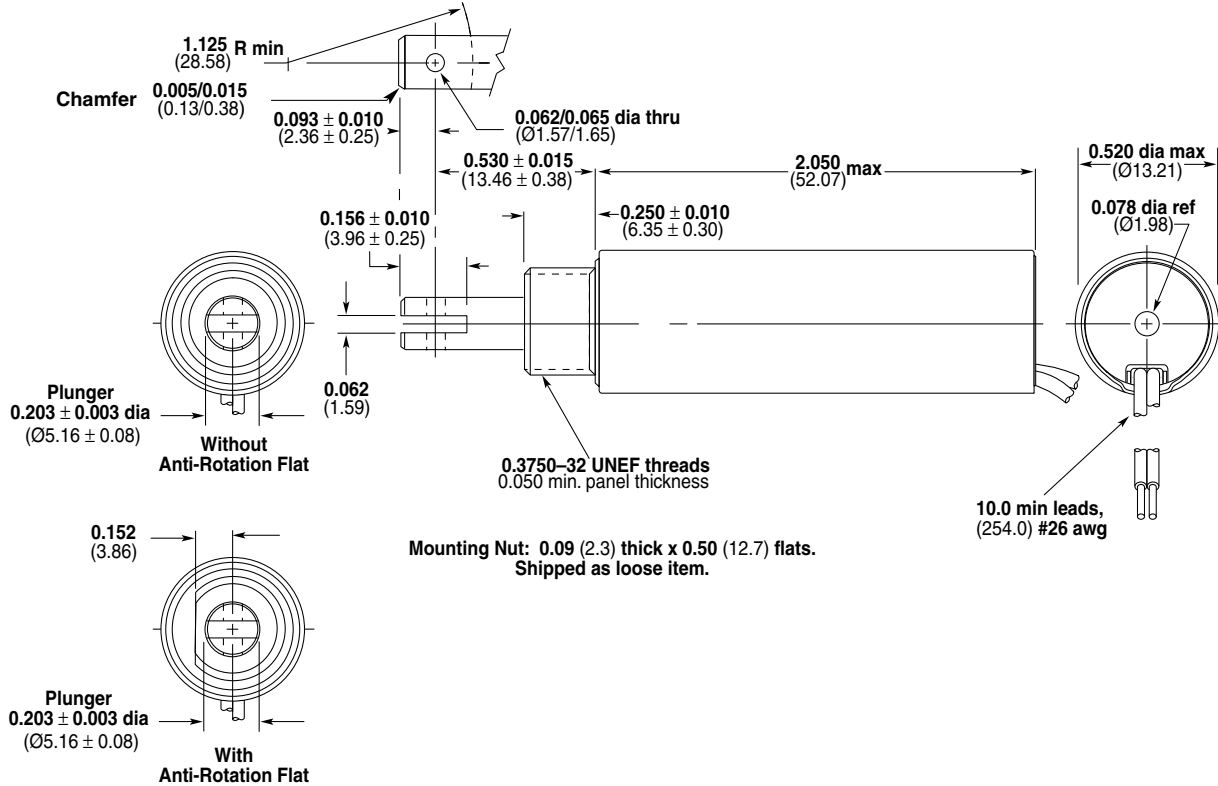
Typical Force @ 20°C



LINEAR Tubular

Dimensions

Inches (mm)



Solenoid illustrated in energized state.

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