

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.

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Performance

	100%	50%	25%	10%		
Maximum Duty Cycle	100%	50%	25%	10%		
Maximum ON Time (sec) when pulsed continuously ¹	∞	62	18	5		
Maximum ON Time (sec) for single pulse ²	∞	179	59	15		
Watts (@ 20°C)	4.8	9.6	19.2	48		
Ampere Turns (@ 20°C)	762	1078	1525	2410		
Coil Data						
avg (0XX) ³	Resistance (@20°C)	# Turns ⁴	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
27	2.03	456	3.1	4.4	6.2	9.9
28	4.57	765	4.7	6.6	9.4	14.8
29	6.30	855	5.5	7.8	11.0	17.4
30	12.34	1276	7.7	10.9	15.4	24.3
31	17.70	1430	9.2	13.0	18.4	29.1
32	30.45	1985	12.1	17.1	24.2	38.2
33	45.10	2350	14.7	20.8	29.4	46.5
34	72.70	2998	18.7	26.4	37.4	59.1
35	118.71	3850	23.9	33.8	47.7	75.5
36	173.00	4510	28.8	40.8	57.6	91.1

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 aluminum plate measuring 2" square by 1/8" thick
Coil Resistance	±5% tolerance
Holding Force	60°: 0.89 lb (3.9 N) at 20°C
Weight	1.5 oz (42.5 gms)
Plunger Weight	0.3 oz (8.5 gms)
Dimensions	Ø0.52" x 2.05" L (See page F33)

How to Order

Add the plunger configuration 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 6.2 VDC at 25% duty cycle, specify 151092-227).

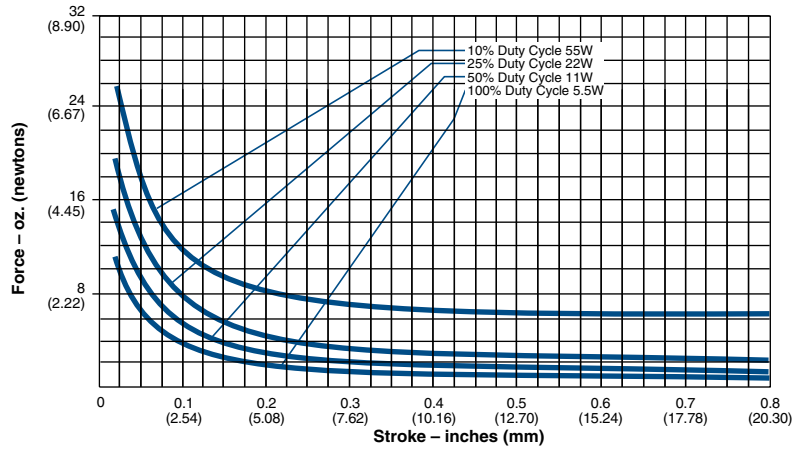
Please see www.ledex.com (click on Stock Products tab) for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

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

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

Typical Force @ 20°C



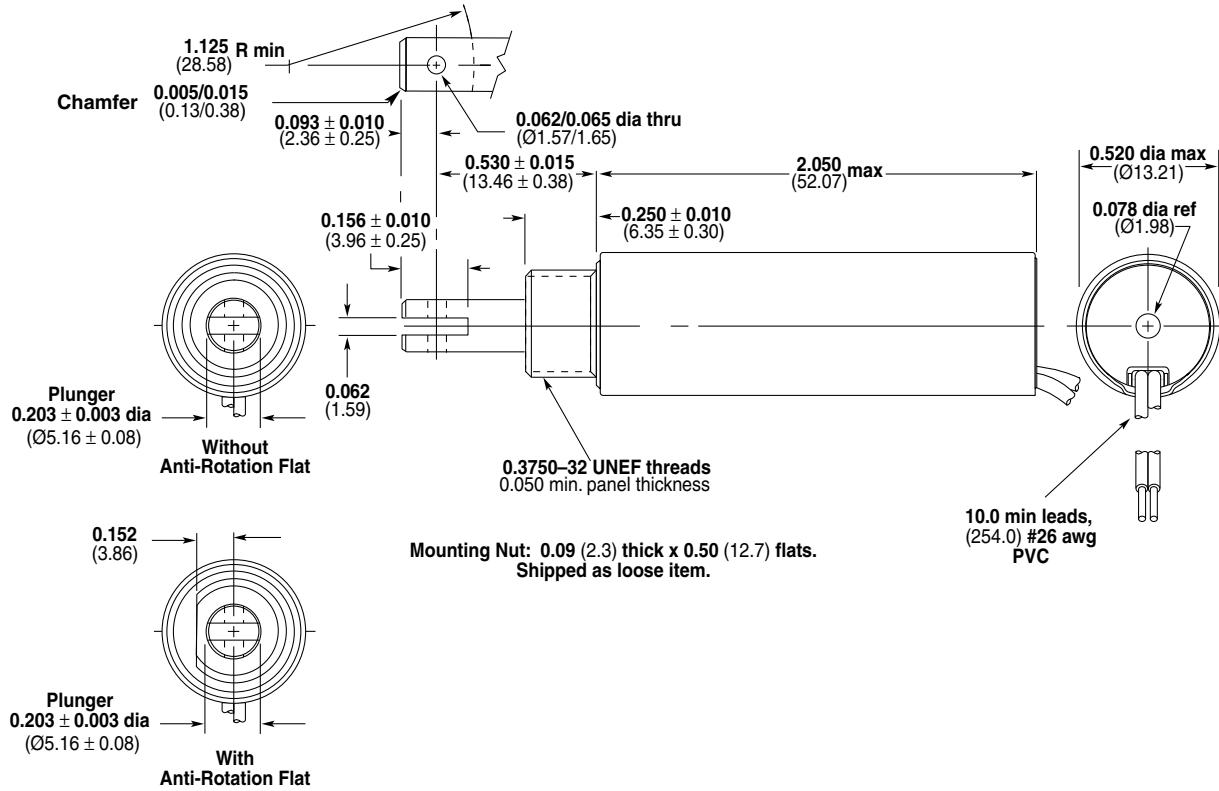
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Ledex® Tubular Solenoids Dimensions

Inches (mm)

STA® Series Pull — 1/2" Dia. x 2"



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All solenoids are illustrated in energized state

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