

NEW!

Tubular Solenoid Solutions



innovating motion

Introducing 3 New Pull Tubular Designs from the Industry Leader

Brief intro? Why were these developed? Specialized requirements/markets/applications?

Common Functional Advantages

- 12 & 24 VDC CD & ID coils available as standard
- Other voltages available on request
- Simple DC on / Off operation
- Easily customized
- Pull models standard - push models available on request

Common Features and Benefits

- Dry, lubricant free operation prevents residue buildup
- Compact size to force output
- Ease of mounting and attachment interface to plunger
- UL listed materials used in construction
- 10" leadwires
- Coils rated for 130° C

STA® Pull



1/2" Dia. x 2"

- Operational life ratings of 25 million cycles
- Stroke up to 0.8"
- Robust STA construction
- Built in air gap spacer eliminates external components
- Suitable for battery operation

Ledex® Size 102 Pull



1" Dia. x 1-1/8"

- Operational Life ratings of 1-10 million cycles
- Stroke of up to 0.5"
- Compact high efficient tubular style

Ledex® Size 155 Pull



1-1/2" Dia. x 1-1/2"

- Operational Life ratings of 1-10 million cycles
- Stroke of up to 0.8"
- Rugged compact size
- External plunger stop and air gap spacer

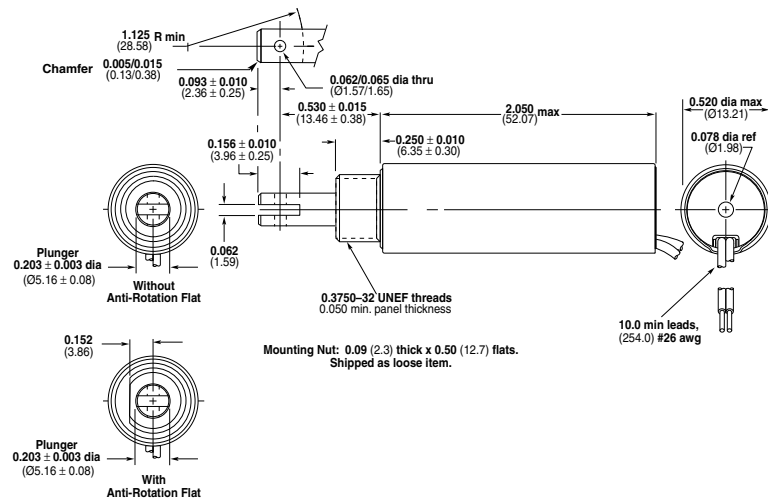
Tubular Selection Overview

Size	Solenoid Type	Package Dimension (in)		Max Stroke (in)	Nominal Stroke (in)	Force (lbs) @ Nominal Stroke and Specified Duty Cycle				Voltage @ Specified Duty Cycle		Model Number
		Dia.	Length			100%	50%	25%	10%	100%	25%	
STA® 1/2" x 2" ●	Pull	0.52	2.05	0.70	0.30	0.90	1.75	3.00	5.20	6	12	151092-229
										12	24	151092-232
										24	48	151092-235
Ledex® Size 102 1" x 1-1/8"	Pull	1.00	1.125	0.50	0.10	2.40	4.00	6.30	9.00	6	12	152099-226
										12	24	152099-230
										24	48	152099-233
Ledex® Size 155 1-1/2" x 1-1/2"	Pull	1.50	1.50	0.80	0.40	1.10	2.70	3.20	10.00	6	12	152097-223
										12	24	152097-226
										24	48	152097-229

All data is at 20°C coil temperature. Force outputs degrade with elevated temperatures.

- Magnetic latching models available.

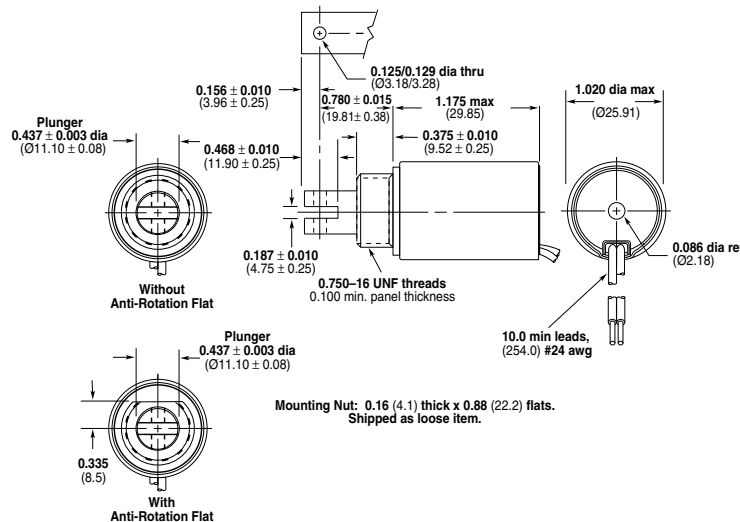
STA® Pull Tubular Solenoid – 1/2" dia. x 2" – 60° Plunger



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)

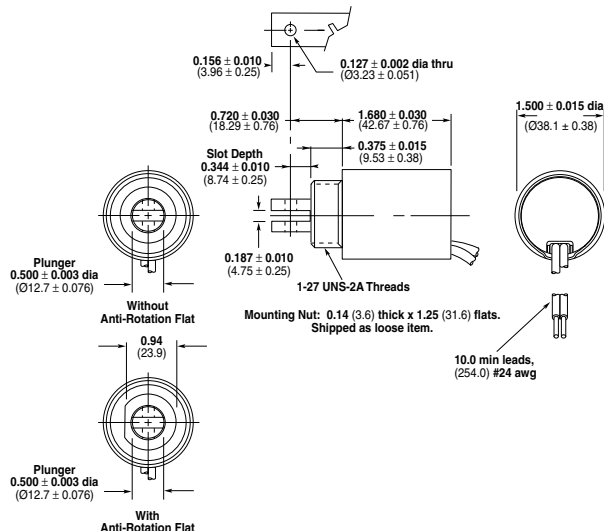
Ledex® Size 102 Pull Tubular Solenoid – 1" dia. x 1.125"



Specifications

Dielectric Strength	1000 VRMS
Holding Force	60°: 7.5 lbs (33.36 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 4" square by 1/8" thick
Coil Resistance	±5% tolerance
Coil Termination	10" minimum lead wires
Weight	3.8 oz (110 gms)
Plunger Weight	1 oz (28 gms)
Dimensions	Ø1.02" x 1.18" L (see drawing)

Ledex® Size 155 Pull Tubular Solenoid – 1-1/2" dia. x 1-1/2"



Specifications

Dielectric Strength	1000 VRMS
Holding Force	60°: 10 lbs (44.48 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 6" square by 1/8" thick
Coil Resistance	±5% tolerance
Coil Termination	10" minimum lead wires
Weight	11.3 oz (320 gms)
Plunger Weight	1.6 oz (46 gms)
Dimensions	Ø1.5 x 1.68" L (see drawing)