

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

LINEAR Tubular

Part Number: 195206 - 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

Performance

| | 100% | 50% | 25% | 10% |
|---|------|------|------|------|
| Maximum Duty Cycle | 100% | 50% | 25% | 10% |
| Maximum ON Time (sec) when pulsed continuously ¹ | ∞ | 360 | 32 | 8 |
| Maximum ON Time (sec) for single pulse ² | ∞ | 470 | 120 | 32 |
| Watts (@ 20°C) | 10 | 20 | 40 | 100 |
| Ampere Turns (@ 20°C) | 1166 | 1649 | 2332 | 3688 |

Coil Data

| awg (0XX) ³ | Resistance (@20°C) | # Turns ⁴ | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|------------------------|--------------------|----------------------|-----------|-----------|-----------|-----------|
| 23 | 1.96 | 536 | 4.4 | 6.3 | 8.9 | 14.0 |
| 24 | 2.69 | 600 | 5.2 | 7.3 | 10.4 | 16.4 |
| 25 | 4.89 | 840 | 7.0 | 9.9 | 14.0 | 22.0 |
| 26 | 8.70 | 1117 | 9.4 | 13.3 | 18.8 | 29.7 |
| 27 | 11.50 | 1260 | 10.7 | 15.2 | 21.0 | 34.0 |
| 28 | 19.20 | 1645 | 13.8 | 19.6 | 28.0 | 44.0 |
| 29 | 31.20 | 2104 | 17.7 | 25.0 | 35.0 | 56.0 |
| 30 | 49.60 | 2646 | 22.0 | 31.0 | 45.0 | 70.0 |
| 31 | 77.40 | 3280 | 28.0 | 39.0 | 56.0 | 88.0 |
| 32 | 119.00 | 4026 | 35.0 | 49.0 | 69.0 | 109.0 |
| 33 | 202.00 | 5317 | 45.0 | 64.0 | 90.0 | 142.0 |

- 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 | 1000 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 4" square by 1/8" thick |
| Coil Resistance | ±5% tolerance |
| Holding Force | Flat Face: 13.83 lb (61.5 N) @ 20°C 60°: 6.61 lb (29.4 N) @ 20°C |
| Weight | 6.96 oz (197.3 g) |
| Plunger Weight | 1.60 oz (45.4 g) |

How to Order

Add the plunger configuration number and the coil awg number to the part number (for example: to order a unit with a 60° plunger rated for 21 VDC at 25% duty cycle, specify 195206-227).

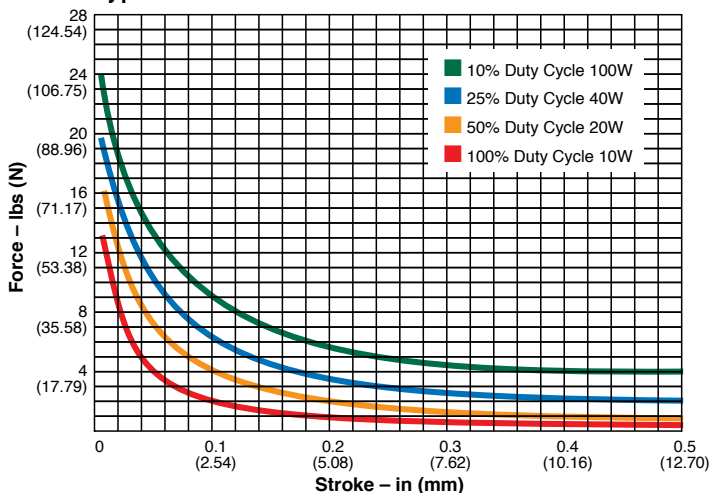
Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

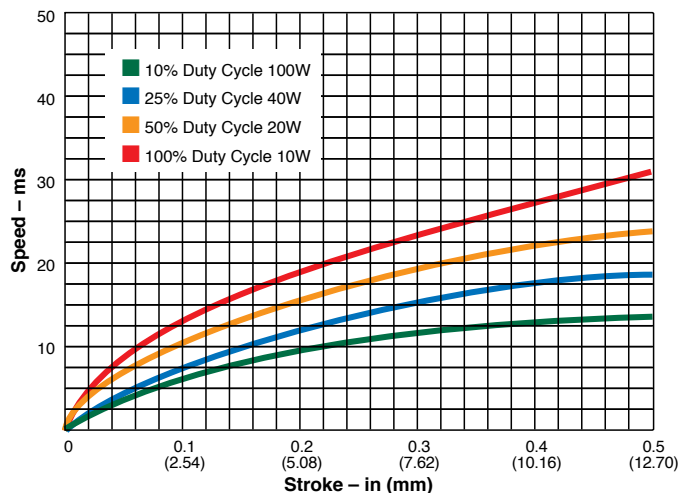
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Flat Face Plunger

Typical Force @ 20°C

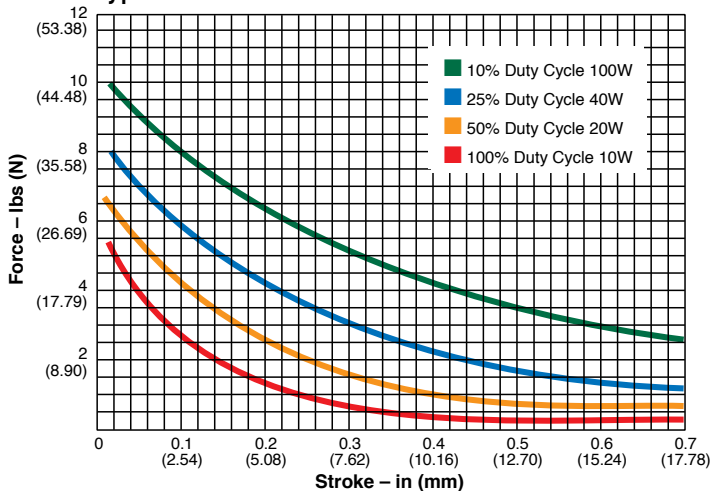


Typical Speed @ No Load, 20°C

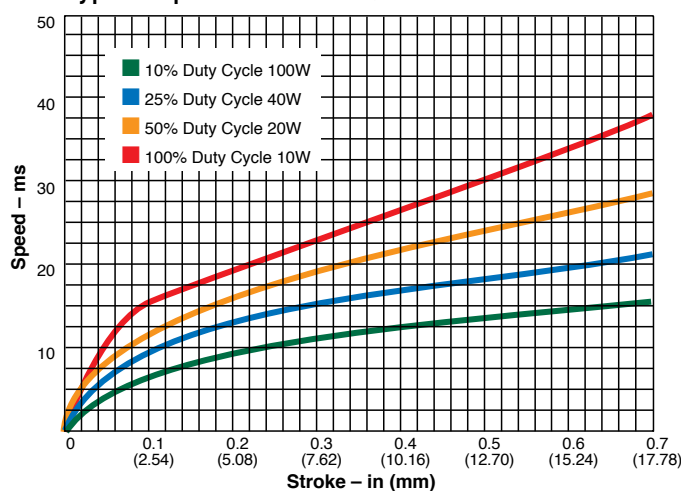


60° Plunger

Typical Force @ 20°C



Typical Speed @ No Load, 20°C



Force values for reference only.

Dimensions

