

# Long-Life DC Tubular Solenoid



## Model LT6x12

### Features:

- Long life construction
- Plunger stop for quiet operation
- DC solenoid applications only
- UL recognized
- Stainless steel guide tube
- Teflon coated plunger



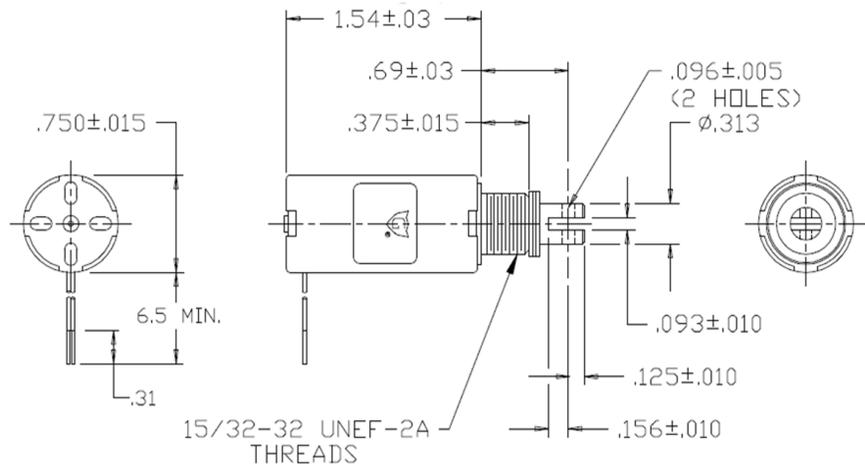
### Electrical:

- Coil Voltages: 6, 12, 24, 48, 110 VDC standard
- Coil Termination: 6.5" Wire leads  
26 AWG (standard)
- Duty Cycle: 100% Continuous, 25% Intermittent,  
10% Intermittent, 1% Pulse
- Coil treatment: Tape Wrapped
- Insulation Class: Class A Rating - 105°C (221°F)
- Dielectric Strength: 1500V 60 Hz

### Mechanical:

- Size: 1.5" (L) x 0.75" (D)
- Plunger Diameter: 0.312"
- Plunger Guide Material: Stainless Steel
- Mounting: Hex Nut
- Weight: Plunger 0.6 oz, Total 2.5 oz
- Life Expectancy: 10 Million Cycles<sup>1</sup>

<sup>1</sup> - Dependent on load conditions



Solenoid shown energized with plunger fully seated  
Supplied with mounting bracket, hex nut and lock washer shipped loose

### Standard Part Numbers

Model No.	Part No.	Duty Cycle	Voltage	Resistance <sup>2</sup> (Ω)	Power (W)	Current
LT6x12-C-12D	A420-064834-00	Cont.	12VDC	35	4.3	343 mA
LT6x12-I-12D	A420-064835-00	Inter.	12VDC	13.8	11	870 mA
LT6x12-C-24D	A420-064836-00	Cont.	24VDC	138	4.4	174 mA
LT6x12-I-24D	A420-064837-00	Inter.	24VDC	53.8	11.2	446 mA

<sup>2</sup> - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles

### Available Customization:

- Plunger
- Lead and Connector
- DC Voltage
- Duty Cycle
- Insulation systems up to class H 180° C (356° F)  
\* Minimum quantities apply

Stroke (in.)	Typical Pull Force Ounces [N] @ 20°C (68°F) (Distance from fully seated position)								HOLDING FORCE Ounces [N]	Power (W)
	0.050	0.125	0.250	0.375	0.500	0.625	0.750			
Continuous 100%	28 [7.8]	10 [2.8]	5 [1.4]	1 [0.3]	0.5 [0.1]	N/A	N/A	21 [5.8]	4.3	
Intermittent 25%	45 [12.5]	22 [6.1]	10 [2.8]	5 [1.4]	1 [0.3]	N/A	N/A	39 [10.8]	11.1	
Intermittent 10% <sup>3</sup>	74 [20.6]	56 [15.6]	32 [8.9]	19 [5.3]	9 [2.5]	4 [1.1]	N/A	78 [21.7]	41.7	
Pulse 1% <sup>3</sup>	91 [25.3]	72 [20.]	50 [13.9]	33 [9.2]	22 [6.1]	10 [2.8]	5 [1.4]	N/A	104	

Continuous Duty 100% = 100% On Time  
Intermittent Duty 25% = 25% On Time (100 Seconds On Max Followed By 300 Seconds Off)  
Intermittent Duty 10% = 90% On Time (10 Seconds On Max Followed By 90 Seconds Off)  
Pulse Duty 1% = 99% On Time (1 Second On Max Followed By 99 Seconds Off)

<sup>3</sup> - Calculated force values to be verified in application

Optional Return Spring Kit

A490-367460-22



**GUARDIAN-ELECTRIC.COM**

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