DC Tubular Solenoid

Model T8x16

GUARDIAN ELECTRIC
1425 Lake Avenue, Woodstock, IL 60098

Features:

- High performance construction
- Available return spring kit
- DC solenoid applications only
- See TP8x16 for push application
- RoHS Compliant
- UL recognized
- Coil Termination: 6.5" Wire leads
  22 AWG (standard)

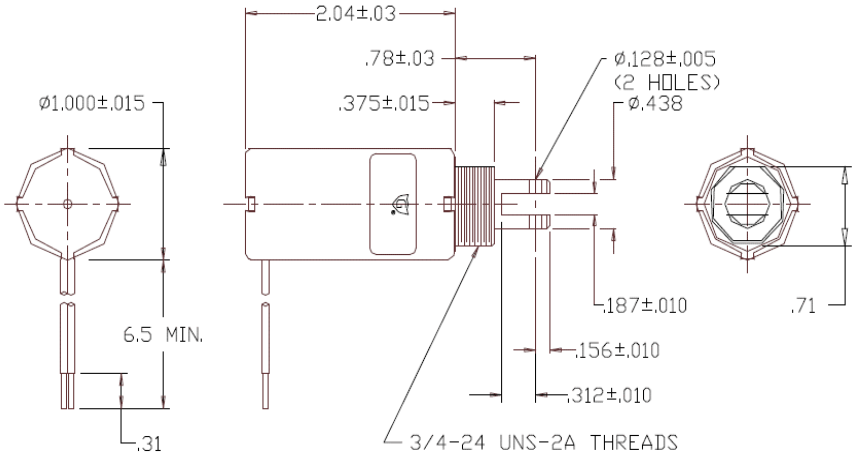
Electrical:

- Coil Voltages: 6, 12, 24, 48, 110 VDC 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: 2" (L) x 1"(D)
- Plunger Diameter: 0.437
- Plunger Guide Material: Plastic
- Mounting: Hex Nut
- Weight: Plunger 1.6 oz, Total 5.8 oz
- Life Expectancy: 1 Million Cycles[1]

[1] - 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	Part Number	Duty Cycle	Voltage	Resistance[2] (Ω)	Power (W)	Current
T8X16-C-12D	A420-066642-00	Cont.	12VDC	28.3	5.3	424 mA
T8X16-I-12D	A420-066643-00	Inter.	12VDC	9.3	16.3	1.29 A
T8X16-C-24D	A420-066644-00	Cont.	24VDC	110	5.5	218 mA
T8X16-I-24D	A420-066645-00	Inter.	24VDC	36.1	16.8	665 mA

2 - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles

Available Customization:

- Plunger
- Lead and Connector
- DC Voltage / Duty Cycle
- Termination
- Insulation systems up to class H 180° C (356° F)

*** Minimum quantities apply**

Typical Pull Force Ounces [N] @ 20°C (68°F) (Distance from fully seated position)									HOLDING FORCE Ounces [N]	Power (W)
Stroke (in.)	0.050	0.125	0.250	0.375	0.500	0.625	0.750	1.000		
Continuous 100%	30 [8.3]	18 [5]	11 [3.1]	5 [1.4]	4 [1.1]	3 [0.8]	2 [0.6]	N/A	103 [28.6]	5.4
Intermittent 25%	60 [16.7]	40 [11.1]	25 [7]	19 [5.3]	15 [4.2]	10 [2.8]	8 [2.2]	N/A	125 [34.8]	16.5
Intermittent 10%[3]	93 [25.9]	68.5 [19]	50 [13.9]	41.5 [11.5]	31.5 [8.8]	28.5 [7.9]	25 [7]	17 [4.7]	261 [72.6]	83
Pulse 1%[3]	118 [32.8]	95 [26.4]	75 [20.9]	63 [17.5]	55 [15.3]	50 [13.9]	43 [12]	32 [8.9]	N/A	130

Optional Return Spring Kit
A490-367460-02

Continuous Duty 100% = 100% On Time
Intermittent Duty 25% = 25% On Time (100 Sec On Max 300 Sec off)
Intermittent Duty 10% = 90% On Time (10 Sec On Max 90 Sec off)
Pulse Duty 1% = 99% On Time (1 Sec On Max 99 Sec off)
[3] - Calculated force values to be verified in application

KELCO INDUSTRIES
www.kelcoind.com

MADE IN THE USA