

DC Tubular Push Solenoid

Model TP8x16



1425 Lake Avenue, Woodstock, IL 60098

Features:

- High performance construction
- Available return spring kit
- DC applications only
- See T8x16 for pull applications
- RoHS Compliant
- UL Recognized
- Coil Termination: 6.5" Wire leads
- 22 AWG (standard)



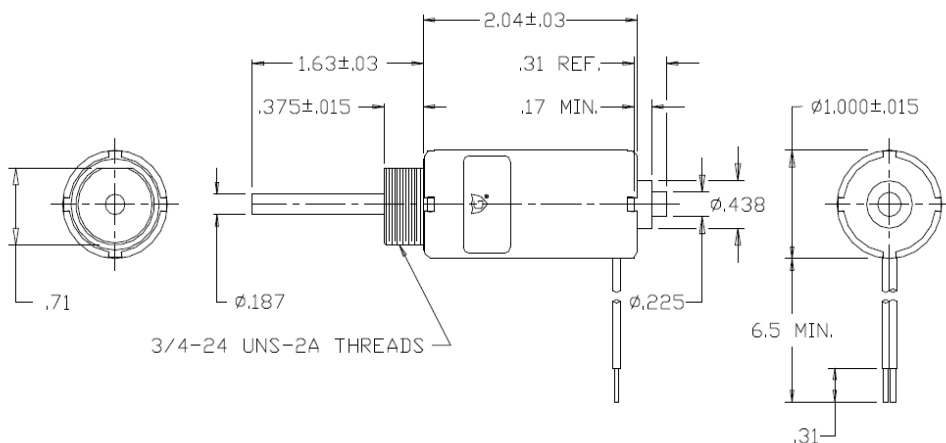
Electrical:

- 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: 0.187"
- Plunger Guide Material: Plastic
- Mounting: Hex Nut
- Weight: Plunger 1.57 oz, Total 5.8 oz
- Life Expectancy: 1 Million Cycles¹

¹ - Dependent on load conditions



Solenoid shown energized with plunger fully seated in extended position
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 |
|-------------|----------------|------------|---------|--------------------------------|--------------|---------|
| TP8x16-C-12 | A420-066662-00 | Cont. | 12VDC | 28.3 | 5.3 | 424 mA |
| TP8x16-I-12 | A420-066663-00 | Inter. | 12VDC | 9.3 | 16.3 | 1.29 A |
| TP8x16-C-24 | A420-066664-00 | Cont. | 24VDC | 110 | 5.5 | 218 mA |
| TP8x16-I-24 | A420-066665-00 | 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 Push Force Ounces [N] @ 20°C (68°F) (Distance from fully extended 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% | 24 [6.7] | 14 [3.9] | 9 [2.5] | 4 [1.1] | 3 [0.8] | 2 [0.6] | 1 [0.3] | N/A | 83 [23] | 5.5 |
| Intermittent 25% | 48 [13.3] | 32 [8.9] | 20 [5.6] | 14 [3.9] | 12 [3.3] | 8 [2.2] | 6 [1.7] | N/A | 100 [27.8] | 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] | 48 |
| 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 | 98.2 |

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)

³ - Calculated force values to be verified in application

Optional Return Spring Kit

A490-367460-11



www.kelcoind.com

Information contained in this specification sheet subject to change without notice. Guardian Electric ©

