

# DC Push Tubular Solenoid



## Model TP4x16

### Features:

- High performance construction
- Available return spring kit
- DC applications only
- See T4x16 for pull applications
- UL recognized

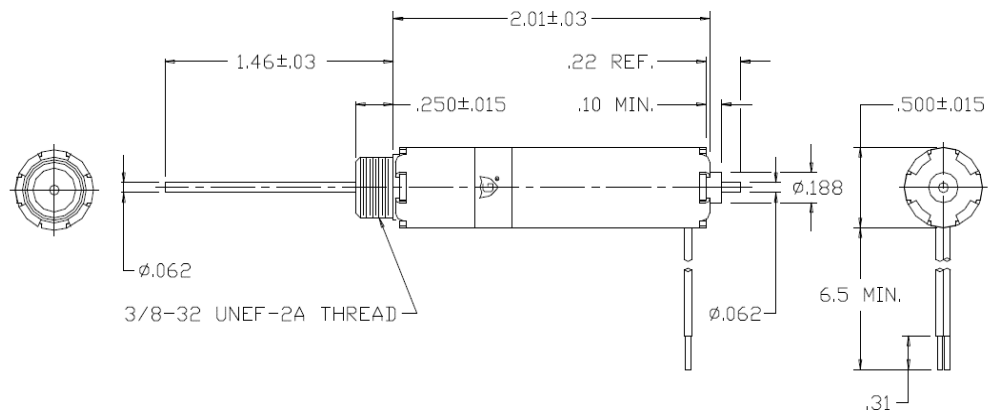
### Electrical:

- Coil Voltages: 6, 12, 24, 48, 110VDC 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: 2" (L) x 0.5" (D)
- Plunger Diameter: 0.062"
- Plunger Guide Material: Plastic
- Mounting: Hex Nut
- Weight: Plunger 0.4 oz, Total 1.4 oz
- Life Expectancy: 1 Million Cycles<sup>1</sup>

<sup>1</sup> - 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 <sup>2</sup> (Ω)	Power (W)	Current
TP4x16-C-12	A420-066083-00	Cont.	12VDC	45.1	3.4	266 mA
TP4x16-I-12	A420-066084-00	Inter.	12VDC	17.7	8.5	678 mA
TP4x16-C-24	A420-066085-00	Cont.	24VDC	173	3.5	139 mA
TP4x16-I-24	A420-066086-00	Inter.	24VDC	72.7	8.3	330 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 Push Force Ounces [N] @ 20°C (68°F) (Distance from fully extended position)								HOLDING FORCE Ounces [N]	Power (W)
	0.050	0.125	0.250	0.375	0.500	0.625	0.750			
Continuous 100%	4 [1.1]	2.5 [0.7]	1 [0.3]	N/A	N/A	N/A	N/A	6.5 [1.8]	3.4	
Intermittent 25%	6.5 [1.8]	3 [0.8]	2 [0.6]	N/A	N/A	N/A	N/A	22 [6.1]	8.5	
Intermittent 10% <sup>3</sup>	13.5 [3.8]	7.5 [2.1]	4.5 [1.3]	3.5 [1]	2 [0.6]	0.5 [0.1]	N/A	44 [12.2]	24.3	
Pulse 1% <sup>3</sup>	22.5 [6.3]	13.5 [3.8]	8.5 [2.4]	6.5 [1.8]	4 [1.1]	2 [0.6]	0.5 [0.1]	N/A	78.2	

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)

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

### Optional Return Spring Kit

A490-367460-14



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