DC Push Tubular Solenoid

Model TP4x12

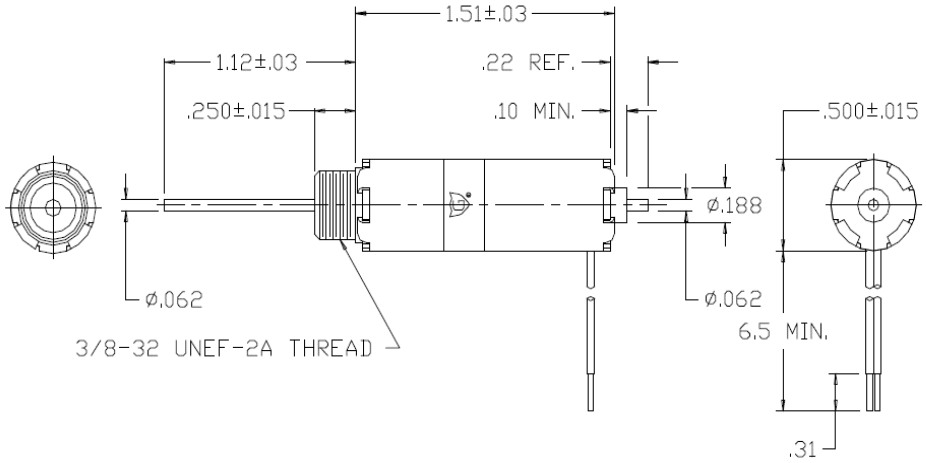
GUARDIAN ELECTRIC
DIVISION OF KELCO INDUSTRIES

Features:
- High performance construction
- Available return spring kit
- DC applications only
- See T4x12 for pull applications
- UL recognized

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 0.5"(D)
- Plunger Diameter: 0.062"
- Plunger Guide Material: Plastic
- Mounting: Hex Nut
- Weight: Plunger 0.28 oz, Total 1 oz
- Life Expectancy: 1 Million Cycles[1]

[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
TP4x12-C-12	A420-066075-00	Cont.	12VDC	49.8	2.9	241 mA
TP4x12-I-12	A420-066076-00	Inter.	12VDC	24.7	5.8	486 mA
TP4x12-C-24	A420-066077-00	Cont.	24VDC	195	3	123 mA
TP4x12-I-24	A420-066078-00	Inter.	24VDC	96.7	6	248 mA

2 - 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**

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		
Continuous 100%	4 [1.1]	2 [0.6]	1 [0.3]	N/A	N/A	N/A	18 [5]	3
Intermittent 25%	7 [1.9]	3 [0.8]	1 [0.3]	N/A	N/A	N/A	20 [5.6]	6
Intermittent 10%[3]	12.5 [3.5]	7.5 [2.1]	5 [1.4]	3.5 [1]	1.5 [0.4]	N/A	43 [12]	22.5
Pulse 1%[3]	18.5 [5.1]	12.5 [3.5]	8.5 [2.4]	6 [1.7]	3.5 [1]	1.5 [0.4]	N/A	56.7

Optional Return Spring Kit
A490-367460-15

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

GUARDIAN-ELECTRIC.COM
1425 Lake Ave - Woodstock IL 60098 - Phone: 800-762-0369