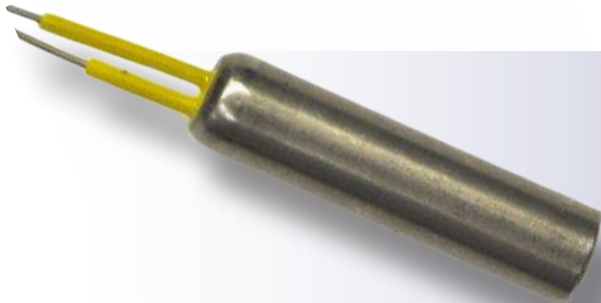


# 1MT34 Piston Actuator

The 1MT34 Piston Actuator is a pyrotechnic-actuated device that produces linear motion.



*Its compact size, light weight, high reliability and environmental resistance make it ideal for aerospace and ordnance applications.*

## Characteristics

Some of the characteristics listed here are nominal; others are levels to which the units have been tested. There are no limits on design capabilities. Please consult an EaglePicher representative before using this data as a specification.

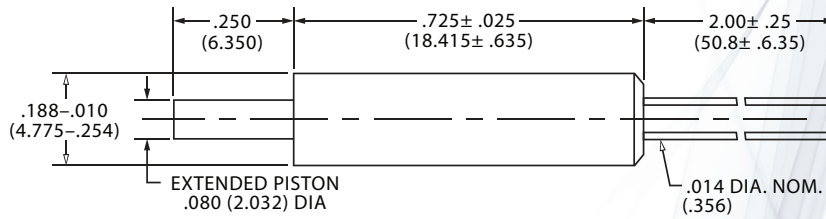
### Specifications

Electrical	
Bridge Resistance @ 70°F (21°C)	1.0 ± 0.1 ohm
All-Fire Current	5 amp pulse, 10 ms (see graph)
No-Fire Current @ 225°F (107°C)	1 amp - 1 watt, 5 min
Insulation Resistance	1 megohm minimum @ 500 Vdc
Static Resistance	25,000 V discharge from a 500 pF capacitor through a 5000 ohm series resistor
Mechanical	
Size	See drawing
Weight	2.0 gm Max.
Seal	Hermetically sealed by a glass-to-metal seal electrical feed-thru and solder seals at each end
Piston Motor	Stroke: 1/4" (6.35 mm) Force (air bellows): 20 lbs min. throughout the entire stroke. Force (peak): 200 lbs min. (zero displacement)
Function Time	10 ms Max. with 5.0 amp firing current

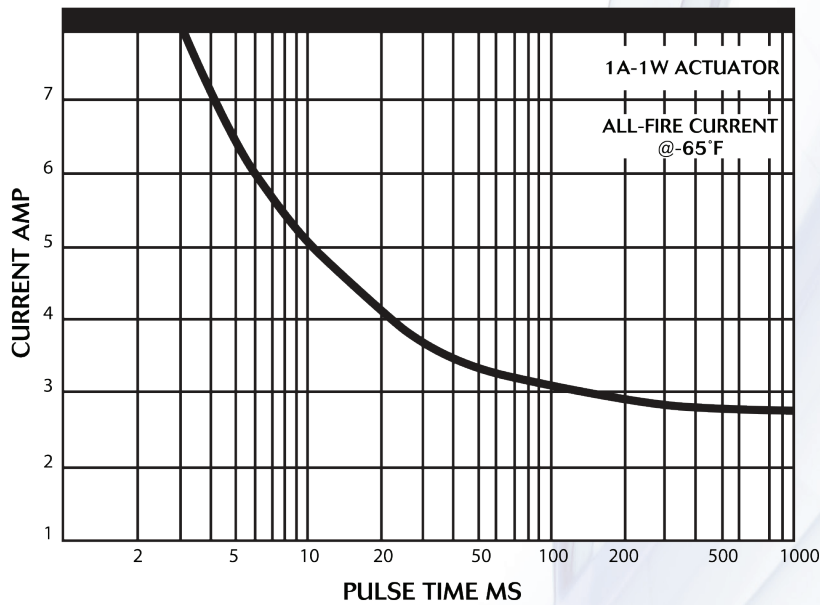
### Specifications Continued

Environmental	
Temperature	Operating range: -65° to +160°F (-54° to +71°C)
Storage	-80° to +255°F (-62° to +107°C) (limited time hot)
Shock	1/2 sine wave pulse of 200 g's Min. for 1.5 ms and 65 g's Min. for 9 ms
Vibration	MIL-STD-810, Table 514-1 Aircraft Category, Procedure 1, Parts 1, 2 & 3, Curve H. Each resonant and cycling period divided equally among -65°, +70°, and +200°F (-54°, +21°, and +93°C)
Temperature Shock/Humidity/Altitude	MIL-I-23659
Chemical	
Ignition Compound	Barium Styphnate
Freight Classification	
Shipping Name	Release Devices, Explosive
Identification Number	UN0173
Hazard Classification	1.4S

# 1MT34



DIMENSIONS IN PARENTHESIS ( ) ARE IN MM.



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