

1SE606 Puncturing Cutter



The 1SE606 is a pyrotechnic actuated cutter specifically designed to puncture a steel disc and release gas from a cylinder through the hollow piston.

Extremely rugged in construction, the cutter can be used in any application where strength and output power are important in providing linear motion. The design is capable of being used in an oxygen environment.

Variations

EaglePicher can design and manufacture variations of the 1SE606 to meet customer requirements.

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 ohm
All-Fire Current	4.5 amp, 20ms
No-Fire Current @ 70°F (21°C)	1.0 amp, 5 min
Insulation Resistance	Before fire: Greater than 1 megohm with 500 Vdc leads to case. Per MIL-STD-202, Method 302, Test Conditions B.
Electrostatic Discharge	MIL-DTL-23659C 25 kW discharge from a 500 pF capacitor applied through a 5,000 ohm serried resistor.
Mechanical	
Size	See Drawing
Weight	15 gm
Stroke	Punctures .006 inch thick nickel disc which is capable of withstanding a gas pressure of 3,000 psig.
Function Time	20 ms
Operating Conditions	-67°F - 162°F
Proof Pressure	6,000 psig
Freight Classification	
Shipping Name	1SE606A
Identification Number	Not regulated
Hazard Classification	None

1SE606

Safety

Maximum pyrotechnic weight:

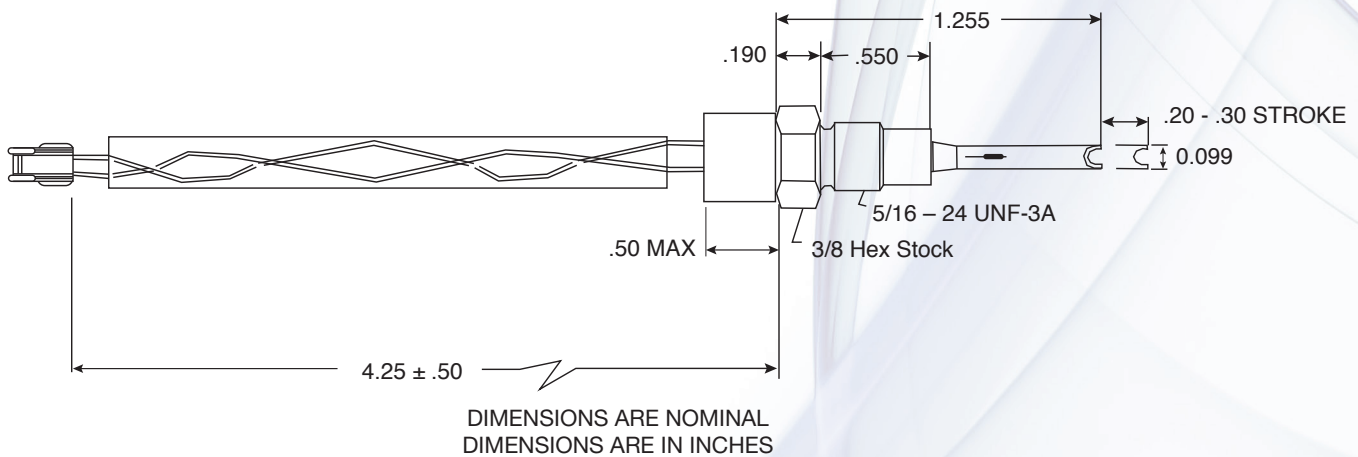
25 mg Barium Styphnate

Warning:

The cutter may fire if exposed to temperatures above 200°F (93°C), an electrical charge exceeding the specified no-fire current, or if it is cut open before functioning.

If your company does not have a safety program, it is essential that one is established before explosive items are handled or used. For a brief overview of safety precautions, see the Safety Procedures Data Sheet or contact an EaglePicher representative.

Energetic devices are considered articles; therefore a Material Safety Data Sheet (MSDS) does not apply. However, MSDS may apply to individual components. For more information, contact your EaglePicher representative.



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