EAGLEPICHER TECHNOLOGIES

Gas Generators

These devices use a precisely controlled reaction to produce a specified volume of gas. The resulting gas pressure is used to do mechanical work

Applications include:
- Displacing a liquid
- Pressurizing a container
- Operating a cartridge actuated device (CAD)
- Inflating air bags
- Actuating expelling bladders and other ejection devices
- Dispensing powder from a corked vial.

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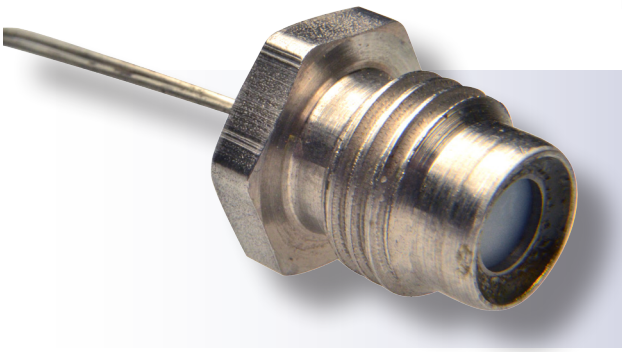
EAGLEPICHER TECHNOLOGIES

EP-701 Pressure Cartridge

Pressure cartridges, sometimes known as gas generators, use pyrotechnic mixtures to produce gas that is applied to do mechanical work.



The EP-701 is an electrically initiated gas generator which is highly reliable and has a minimum shelf-life of 10 years.

Variations

The EP-701 gas generator was designed and made for a specific application. EaglePicher will modify this part to meet customer requirements. Variations are possible in firing characteristics, peak pressure, and pressure build-up rate.

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) Measured with .010 amp max	1.5 to 7.0 ohms
All-fire Current @ -65°F (-54°C)	5000 ergs (24µfd cap charged to 6.5 volts)
No-fire Current @ 70°F (21°C)	0.20 amp, 1 min

Specifications Continued

Mechanical	
Size	See Drawing
Weight Approximation	5.1 gm
Time-to-Peak Pressure Max	5 ms max
Output Pressure in .061 in^3 (1.0 cm^3) Closed Bomb	4000 to 7000 psi
Environmental	
Temperature	Operating range: -65°F to +160°F (-54°C to 71°C)
Temperature Shock	MIL-STD-331, Method 113.1
Shock	MIL-STD-810, Test Method 516, Procedure 1 30g's for 11 ms, 1/2 sine wave pulse
Vibration	MIL-STD-810, Table 514.2 IV, Procedure 11A
Chemical	
Ignition Compound	Lead Styphnate
Freight Classification	
Shipping Name	Cartridges, Power Device
Identification Number	UN0276
Hazard Classification	1.4C

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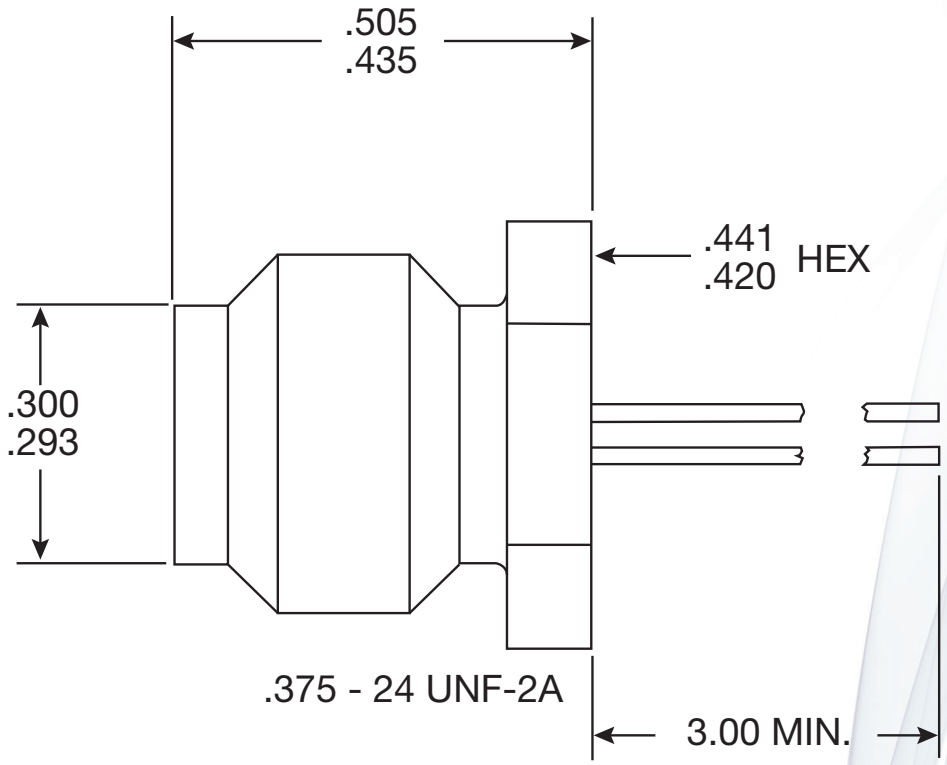
EP-701



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EAGLEPICHER TECHNOLOGIES

GG-300 Pressure Cartridge

Pressure cartridges, sometimes known as gas generators, use pyrotechnic mixtures to produce gas that is applied to do mechanical work.

The GG-300 is a dual bridge electrically initiated gas generator with a controlled rise and decay pressure profile. It is highly reliable and has a minimum shelf-life of 15 years.

Variations

The GG-300 gas generator was designed and made for a specific application. EaglePicher will modify this part to meet customer requirements. Variations are possible in firing characteristics, peak pressure, pressure build-up rate and pressure decay rate.

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) Measured with .010 amp max	1.1 ohms
All-fire Current @ -31°F (-35°C)	3.5 amps, 60Hz or DC, 50 mS
No-fire Current @ 70°F (21°C)	1.0 amp/1.0 watt, 5 min
Mechanical	
Size	See Drawing
Weight Approximation	13.6 gm max
Time-to-Peak Pressure Max	27 ms max
Output Pressure in .61 in^3 (10.0 cm^3) Closed Bomb	550 psi

Specifications Continued

Environmental	
Temperature	Operating range: -31°F to 122°F (-35°C to 50°C)
Temperature Shock	MIL-STD-202, Method 107, Condition A
Shock	MIL-STD-202, Test Method 213, Condition D 500 g's 1/2 sine wave pulse
Vibration	MIL-STD-202, Method 204, Condition B
Moisture Resistance	MIL-STD-202, Method 106
Chemical	
Ignition Compound	Barium Styphnate
Output Compound	THPP
Freight Classification	
Shipping Name	Cartridge, Power Device
Identification Number	UN0323
Hazard Classification	1.4S

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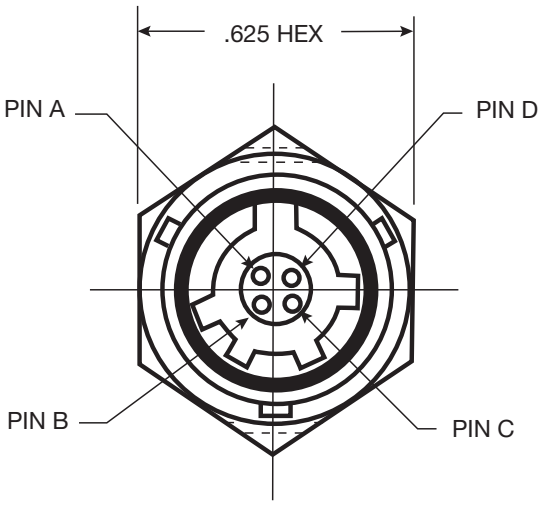
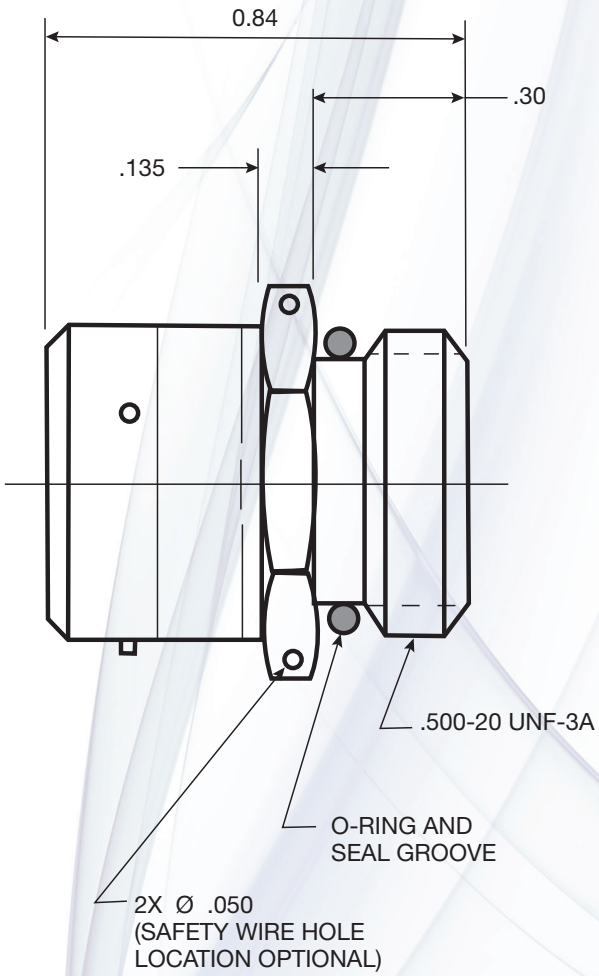
GG-300



MATING CONNECTOR: MS 3116E8-4S



DIMENSIONS ARE NOMINAL

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EAGLEPICHER TECHNOLOGIES

GG-301 Pressure Cartridge

Pressure cartridges, sometimes known as gas generators, use pyrotechnic mixtures to produce gas that is applied to do mechanical work.

The GG-301 is a dual bridge electrically initiated gas generator with a controlled rise and decay pressure profile. It is highly reliable and has a minimum shelf-life of 15 years.

Variations

The GG-301 gas generator was designed and made for a specific application. EaglePicher will modify this part to meet customer requirements. Variations are possible in firing characteristics, peak pressure, pressure build-up rate and pressure decay rate.

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) Measured with .010 amp max	1.1 ohms
All-fire Current @ -31°F (-35°C)	3.5 amps, 60Hz or DC, 50 mS
No-fire Current @ 70°F (21°C)	1.0 amp/1.0 watt, 5 min
Mechanical	
Size	See Drawing
Weight Approximation	13.6 gm max
Time-to-Peak Pressure Max	27 ms max
Output Pressure in .61 in^3 (10.0 cm^3) Closed Bomb	550 psi

Specifications Continued

Environmental	
Temperature	Operating range: -31°F to 122°F (-35°C to 50°C)
Temperature Shock	MIL-STD-202, Method 107, Condition A
Shock	MIL-STD-202, Test Method 213, Condition D 500 g's 1/2 sine wave pulse
Vibration	MIL-STD-202, Method 204, Condition B
Moisture Resistance	MIL-STD-202, Method 106
Chemical	
Ignition Compound	Barium Styphnate
Output Compound	THPP
Freight Classification	
Shipping Name	Cartridge, Power Device
Identification Number	UN0323
Hazard Classification	1.4S

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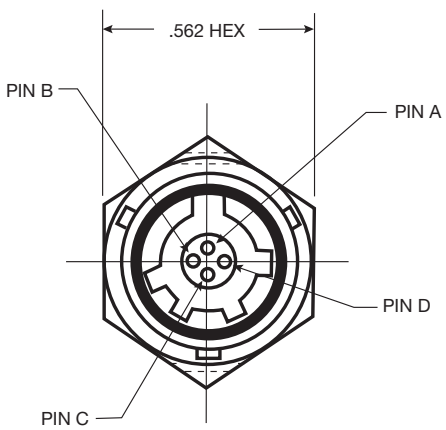
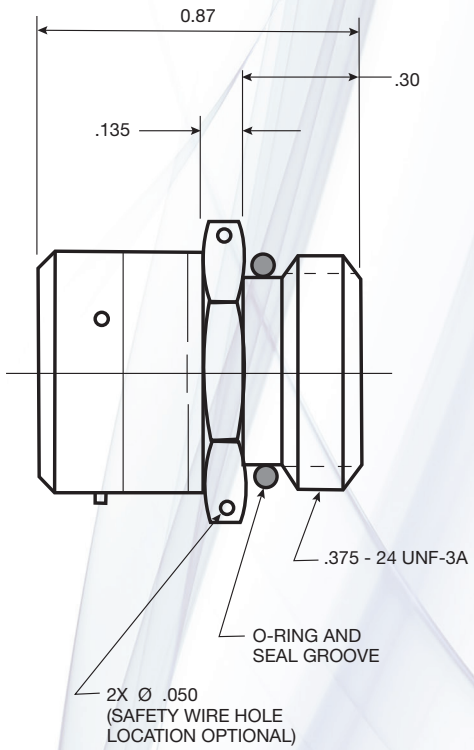
GG-301



MATING CONNECTOR: MS 3116E8-4SW



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