

PRODUCT FAMILY

HOT GAS INITIATOR

A Hot Gas Initiator provides a method of converting one signal transmission method into another. Typical conversion types as part of an Emergency Escape System include:

- Hot gas (i.e. from an Ejection Seat System) to a detonating signal (i.e.: to an attached Shielded Mild Detonating Cord (SMDC), Flexible Confined Detonating Cord (FCDC), Confined Detonating Cord (DCD) or Rapid Deflagrating Cord Transfer Line(RDCTL)
- Detonating signal to hot gas
- Hot gas to a deflagrating signal (i.e. HGI to attached RDCTL)

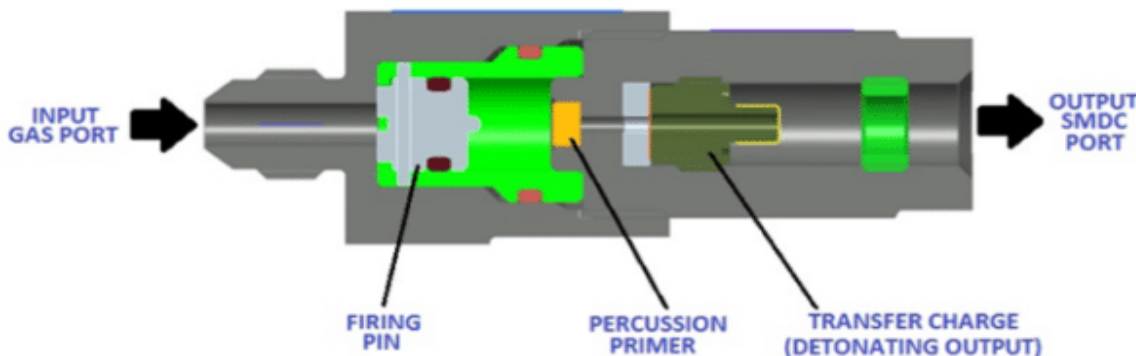


APPLICABLE SPECIFICATIONS

Operating Temperature:	-65°F to +200°F
Leak Rate:	1×10 ⁻⁵ cc / sec. Air at 1.0 + 1 Atmosphere
Vibration:	5-2,000 Hz sinusoidal vibrations at 10 g's maximum amplitude per MIL-STD-810, Method 514.1, Procedure I
Shock:	10 shocks of 15 g's maximum acceleration in 8 milliseconds maximum, exceeding 8 g's for 11 milliseconds maximum, per MIL-D-23615
High Temperature:	+200°F +/- 5°F for 1 hour per MIL-D-21625
Low Temperature:	-65°F +/- 5°F for 1 hour per MIL-D-21625
Sand/Dust:	.3 +/- .2 gm./ft. 3 dust concentration, with a maximum air velocity of 1,750 +/- 250 fpm and +145°F maximum per MIL-STD-810, Method 510
Salt Fog:	48 hours at +95°F +/- 2.5°F per MIL-STD-810, Method 509
Icing:	-65°F to +100°F +/- 5°F at 90% RH, then returned to -65°F and functioned, per MIL-D-23615
Platform Use & Heritage:	F-15, F/A-18, B-1B, Scorpion, Improved CFS w/Inerts

Drop 6 feet onto a steel plate at least 2 inches thick, over concrete per MIL-D-21625; 40 feet onto a steel plate over reinforced concrete per MIL-D-21625

Temperature/Humidity Cycling in two and three week segments from -80oF to +160oF at 90% RH per MIL-D-21625



ENVELOPE & DIMENSIONS