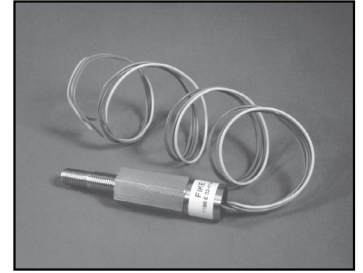## GAS CARTRIDGE ACTUATOR

DESCRIPTION

The Gas Cartridge Actuator (GCA) provides the necessary pressure to:

- open all Fike containers utilizing a Fike fast acting single rupture disc assembly
- close Fike's fast acting isolation valves

The GCA consists of a 17-4 PH series stainless steel body containing two sets of bridge wires. This device is designed to operate by electrical input from a Fike system controller. Operation of the GCA occurs when the electric current is sent through the bridge wires causing an exothermic chemical reaction. This generates the necessary pressure to open the rupture disc and discharge the suppressant agent or pneumatically drive the gate closed on the isolation valves.
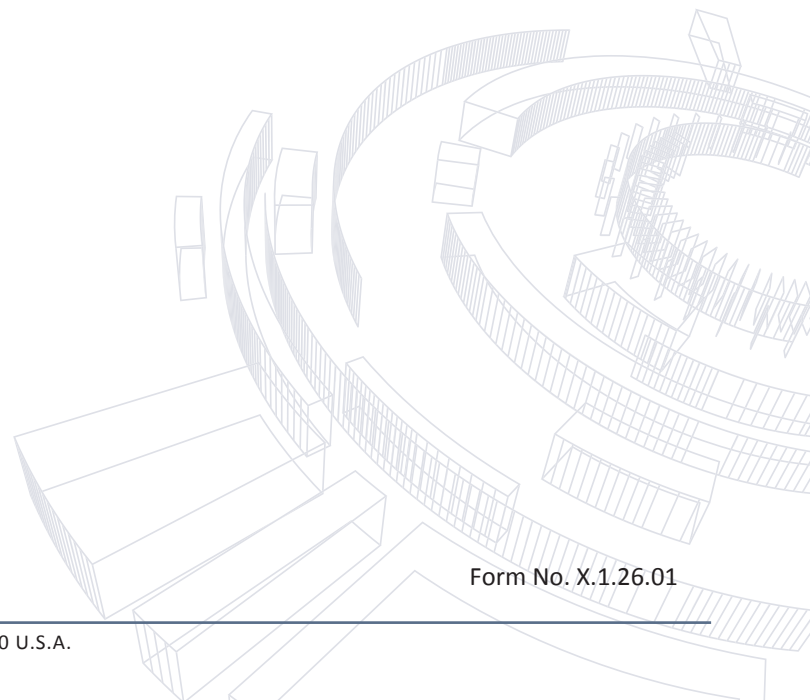

Gas Cartridge Actuator
P/N 02-4134

FEATURES AND BENEFITS

- Faster reaction time than conventional system utilizing detonators
- Enhanced system reliability and design flexibility
- Redundant set of bridge wires and hermetic seal
- Up to 10 times longer service life than detonators. Handling, storage, shipping and disposal is easier than a Class "B" explosive
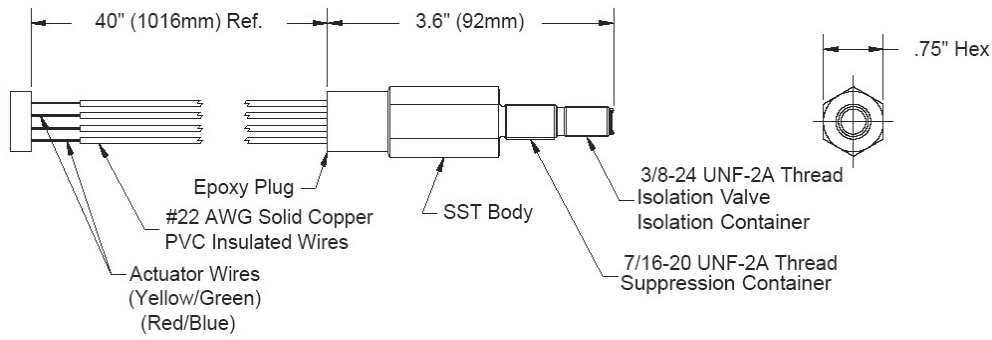
SPECIFICATIONS

Operating Temperature:	-40 to 140°F (-40 to +60°C)
Handling/Storage:	The U.S. Bureau of Alcohol, Tobacco, and Firearms classify the GCA as a special explosive device under 27 CFR 55.32. As such, the GCA is exempt from the licensing and storage requirements contained in the Federal explosives regulations.
Shelf Life:	The GCA is a sealed device utilizing a glass seal and epoxy plug on the wire end and a Mylar seal on the discharge end. This extends the actuator's continuous service and shelf life to 10 years before it requires replacement.
Shipping Classification:	The GCA will not detonate any explosive materials or products. It has a U.S. Department of Transportation classification of: • Class: 1.4 • Compatibility Group: "S" • Shipping Number: UN0323 This classification allows this device to be shipped on most commercial carriers.

Form No. X.1.26.01

GAS CARTRIDGE ACTUATOR DETAILS

40" (1016mm) Ref.

3.6" (92mm)

.75" Hex

Epoxy Plug

#22 AWG Solid Copper
PVC Insulated Wires

SST Body

Actuator Wires
(Yellow/Green)
(Red/Blue)

3/8-24 UNF-2A Thread
Isolation Valve
Isolation Container

7/16-20 UNF-2A Thread
Suppression Container

CONNECTION DIAGRAM

FIKE
CONTROL
PANEL

ISOLATION CONTAINER

ISOLATION VALVE

SUPPRESSION CONTAINER