

SOLENOID ACTUATOR KIT

DESCRIPTION

The Solenoid Actuator Kit, Fike P/Ns 70-121-1 and 70-121-2, is used to operate/open the clean agent or carbon dioxide selector valve. The actuation package utilizes a 24 VDC electric solenoid with manual actuator button that is connected to a small cylinder filled with nitrogen. Operation of the actuator occurs by either an electrical input from a fire control panel, or by operation of a mechanical manual actuator.

Operation of the actuator will pierce the sealing disc of the nitrogen cylinder allowing nitrogen to flow into the actuator on the selector valve, in turn opening the ball valve. When electrically or manually actuated a red pin protrudes from the base of the solenoid indicating the solenoid has been operated.

One Solenoid Actuator Kit is required per selector valve being operated.

Electric Solenoid

The Solenoid Actuator Kit includes a 24VDC electric solenoid, which can be electrically or manually activated.

In the event of facility power failure and battery back-up failure, the Fike suppression system can still be manually operated. To initiate the manual activation operation, remove the locking pin and press the red manual activation button located on the electric solenoid. This will initiate the discharge sequence.

Once activated, the solenoid is reset by utilizing the reset tool (Fike P/N 70-1851) and replacing the nitrogen cylinder.

Nitrogen Cylinder

The Solenoid Actuator Kit comes equipped with a seamless 210 ml "sealed for life" nitrogen cylinder. The cylinder has a charge pressure of 157-176 barg/2350-2640 psig, and a net weight of 39 grams/1.4 oz.

The nitrogen cylinder is a non-regulated pressurized cylinder and is not restricted cargo when shipped by ground, air, or rail transportation. The nitrogen cylinder has a 1/2" outlet and is threaded into the bottom of the solenoid. A cap rupture disc retains the nitrogen in the cylinder. A pin in the electric solenoid will pierce the cap rupture disc allowing nitrogen to flow from the cylinder and to the clean agent discharge valve assembly.

INSTALLATION

The Solenoid Actuator Kit comes equipped with the necessary items for installation within three feet (1 m) of the selector valve being operated. The maximum distance the solenoid actuator can be mounted from the selector valve is 42' (13.0 m) when utilizing either 1/4" x 0.020" wall thickness stainless steel tubing or 1/4" Schedule 40 pipe.



Solenoid Actuator Kit

Data Sheet

APPROVALS

FM Approved:

- Clean Agent, SAV: 3014476
- Selector Valve: 3015909

Form No. C.1.39.01-2

SPECIFICATIONS

Solenoid Actuator Kit

w/Non-DOT Cylinder

w/DOT Cylinder

P/N

70-121-1

70-121-2

Electric Solenoid Actuator

- Supply Voltage: 24 VDC
- Coil Resistance: 28 ohm
- Maximum Supervision Current: 30mA
- Minimum Fire Current: 1.0 amp

Nitrogen Cylinder

- Filling Pressure: 157-176 barg/2350-2640 psig
- Volume: 210 ml
- Maximum Exposure Temperature: 71° C / 160° F
- Classification: 2.2
- Shipping Number: UN1066

Shipping Weight

- 3.0 kg / 6.6 lbs.

