

Clean Agent Suppression Systems with Solenoid Actuated Valve



DESCRIPTION

The Master Actuation Package is used to operate the solenoid operated HFC-227ea containers. The actuation package utilizes a 24 VDC electric solenoid and is connected to a small cylinder filled with nitrogen. Operation of the master actuator occurs by either:

1. Electrical input from a fire control panel, or
2. Operation of a mechanical manual actuator

Operation of the actuator will pierce the sealing disc of the nitrogen cylinder allowing nitrogen to flow to the HFC-227ea discharge valve. When electrically operated a red pin protruding from the base of the solenoid will indicate operation of the solenoid.

Each HFC-227ea container assembly requires a means of actuation. A single HFC-227ea container assembly requires only a Master Actuation Package. When multiple containers are in a manifold style arrangement, one Master Actuation Package is utilized

P/N 70-121-2

to start the discharge sequence. All other containers on the manifold are equipped with a Slave Actuation Package, which includes a pneumatic valve and nitrogen pilot cylinder. A maximum of five additional containers can be operated from a single Master Actuation Package.

ELECTRIC SOLENOID

The Master Actuation Package 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 HFC-227ea 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 in the field by utilizing a tool (Fike P/N 70-1851) provided with the Master Actuation Package.

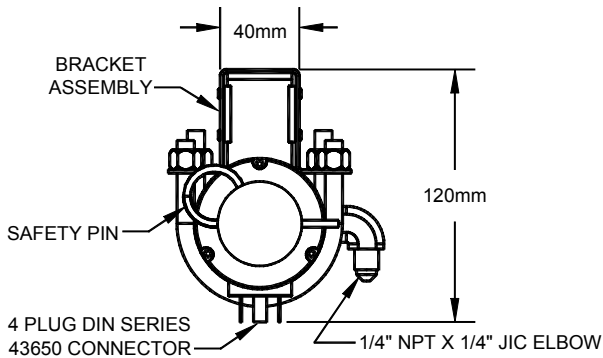
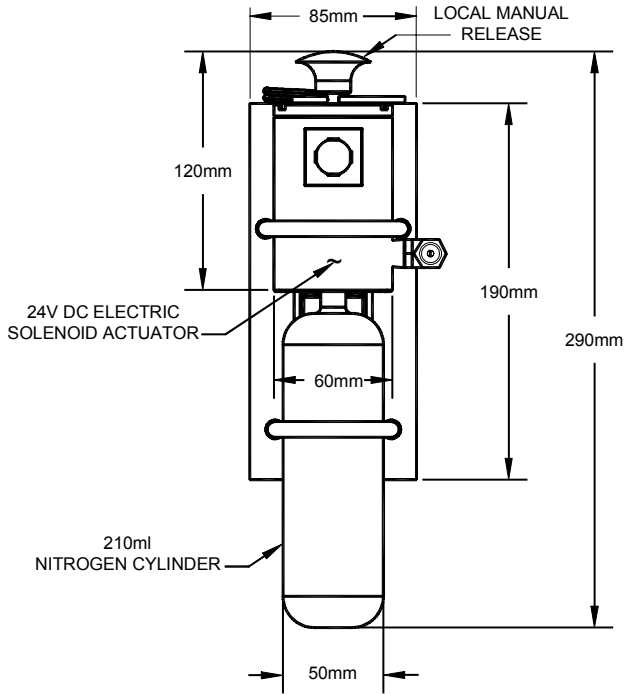
NITROGEN CYLINDER

The Master Actuation Package comes equipped with a seamless 210 ml "sealed for life" nitrogen cylinder. The cylinder has a charge pressure of 157-176 barg and a net weight of 39 grams.

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"-20 UNF 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 HFC-227ea discharge valve assembly.

INSTALLATION

The Master Actuation Package comes equipped with a wall mounting bracket for installation within one metre of the HFC-227ea storage container it is intended to actuate. A flexible pilot hose is included with the actuator kit and is used to connect the Master Actuation Package to the HFC-227ea storage container valve assembly.



SPECIFICATIONS

Electric Solenoid Actuator:

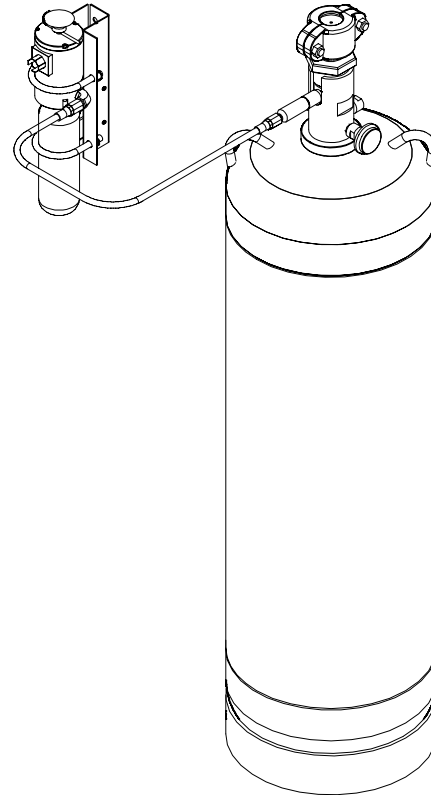
Supply Voltage	24 VDC
Coil Resistance	28 ohm
Maximum Supervision Current	30mA
Minimum Fire Current	1.0 amp

Nitrogen Cylinder:

Filling Pressure	157-176 barg
Volume	210 ml
Maximum Exposure Temperature	71° C
Classification	2.2
Shipping Number	UN1066

Shipping Weight:

3.0 kg



Single HFC-227ea Container with Master Actuation Package