

DIRECT FIRED IMPULSE ACTUATOR (DFIA) KIT

(For use with approved Notifier[®] components)

Description

The Direct Fired Impulse Actuator (DFIA) Kit includes the primary components required to actuate Fike's Impulse Valve clean agent containers from a compatible releasing panel. The kit's primary component is the DFIA, which provides both an automatic and manual means of activating the valve it is connected to. Automatic activation of the DFIA is accomplished by applying 24 VDC power from the host releasing control panel or releasing device to the DFIA. This will cause the DFIA's firing piston to extend and open the valve's rupture disc, allowing the agent to be released from the container. Manual activation of the DFIA can be accomplished by striking the RED button on the DFIA itself.

The kit also includes an Impulse Valve Operator Supervisor (IVOS) that when installed monitors the connection of the DFIA to the impulse valve itself. When the IVOS is removed, it will cause a "Supervisory event" at the releasing control panel indicating that the DFIA has been disconnected from the valve, essentially disabling the suppression system.

Compatibility

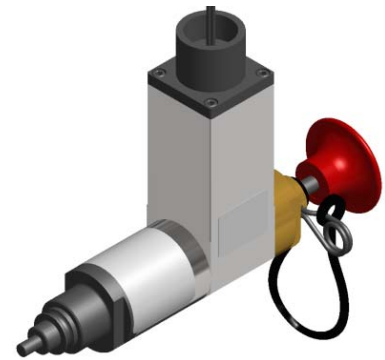
The Notifier FCM-1-REL releasing control module has been compatibility tested for use in activating the DFIA. Maximum one DFIA per module. In addition, the FCM-1-REL module provides the required supervision of the releasing circuit wiring (open and ground fault conditions) from the impulse valve clean agent container to the compatible releasing panel. Refer to Notifier's Device Compatibility document number 15378 for DFIA compatibility.

Features and Benefits

- Can be reset without replacement
- Simple to remove and ease of testing
- Provides supervision of DFIA removal required by NFPA 2001

Ordering Information

P/N 70-342-1		DIRECT FIRED IMPULSE ACTUATOR (DFIA) KIT
The following items are furnished with the DFIA Kit:		
Item No.	Part Number	Description
1	02-14554-1	Direct Fired Impulse Actuator (DFIA)
2	02-14263	Impulse Valve Operator Supervisor (IVOS)
3	02-13130	Cotter Pin (not shown)
4	02-2213	Security Tie (not shown)
5	02-12925	Black Plastic Cap (not shown)
6	06-875	DFIA Installation Instructions



DFIA (Item 1)



IVOS (Item 2)

Specifications

DIRECT FIRED IMPULSE ACTUATOR (DFIA), P/N 02-14554-1	
Supply Voltage	24 VDC nominal (15.6 – 29.5 VDC range)
Current Consumption	Alarm = 420 mA maximum Standby = Consult Notifier's FCM-1-REL documentation
Electrical Connection	Cable & ½" NPT for conduit connection
DFIA Material	Stainless Steel (Body) / Brass (End Cap)
Temperature Range	32° F to 130° F (0° C to 54.4° C)
Listings & Approvals	UL / ULC Listed & FM Approved
IMPULSE VALVE OPERATOR SUPERVISOR (IVOS), P/N 02-14263	
Switch	Normally Closed (Black) / Normally Open contacts (White) / Common (Red)
Conduit	0.25" ID SST flexible conduit 34.75" (88 cm) long with 1/2" knockout connector
Wire Leads	22 AWG, 44" (112 cm) long

General Assembly

