

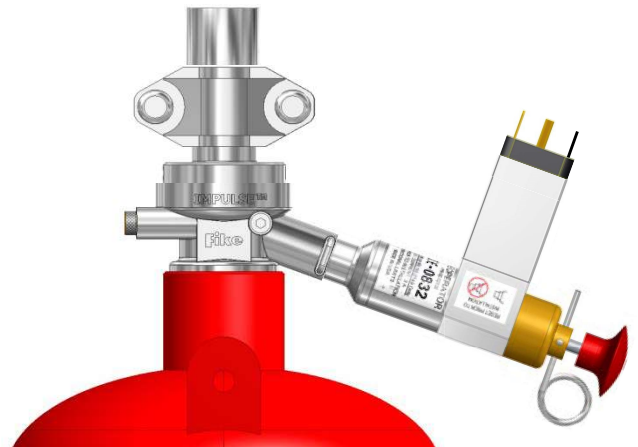
DIRECT IMPULSE VALVE ACTUATOR (DIVA) KIT

DESCRIPTION

The Direct Impulse Actuator (DIVA) provides means to electrically or manually activate the Fike Clean Agent Containers with the Impulse Valve by providing the force required to extend a piston that will open the rupture disc, allowing the agent to be released from the container.

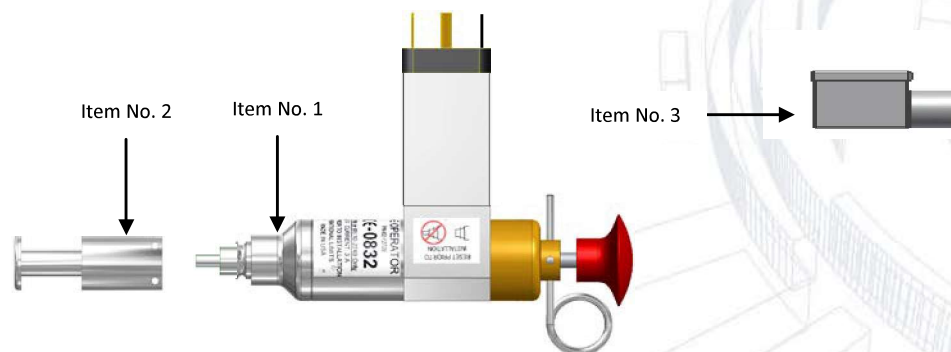
The DIVA can be activated electrically via a signal from a Fike control panel or manually by depressing the red strike button.

Fike Clean Agent Containers with Impulse Valve / DIVA are designed to be connected directly to the extinguishant releasing circuit of control panels.



SPECIFICATIONS

P/N 70-332		DIRECT IMPULSE VALVE ACTUATOR (DIVA) KIT
NOTE: The following items are furnished with the DIVA Kit:		
Item No.	Part Number	Description
1	02-14231	Direct Impulse Valve Actuator (DIVA)
2	70-286	Reset Tool (Designed especially for the DIVA only and not any other Fike Actuator)
3	02-10219	DIN (4 pin) Connector
Normal Supply Voltage		24 VDC (minimum)/ 30 VDC (maximum)
Minimum Duration of Firing Signal		2 seconds
Current Consumption (for Battery Calculation)		Supervision max. 10 mA Minimum current during activation at 24 VDC of 0.36 A. Rated for continuous duty at 24 VDC
Electrical Connection		IP65 – DIN Connector w/ Cable
DIVA Material		Stainless Steel (Body) / Brass (End Cap)
Temperature Range		-20°C to +50°C
LISTINGS & APPROVALS		LPCB

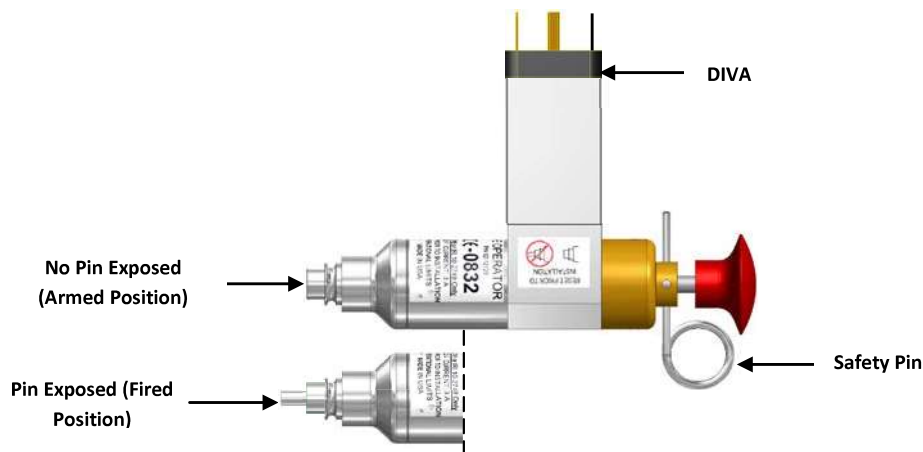


INSTALLATION

After the electrical / control system has been checked and no trouble / ground faults are present; proceed with the Actuation System installation.

NOTE: This should be the last items completed before the system is placed into operation.

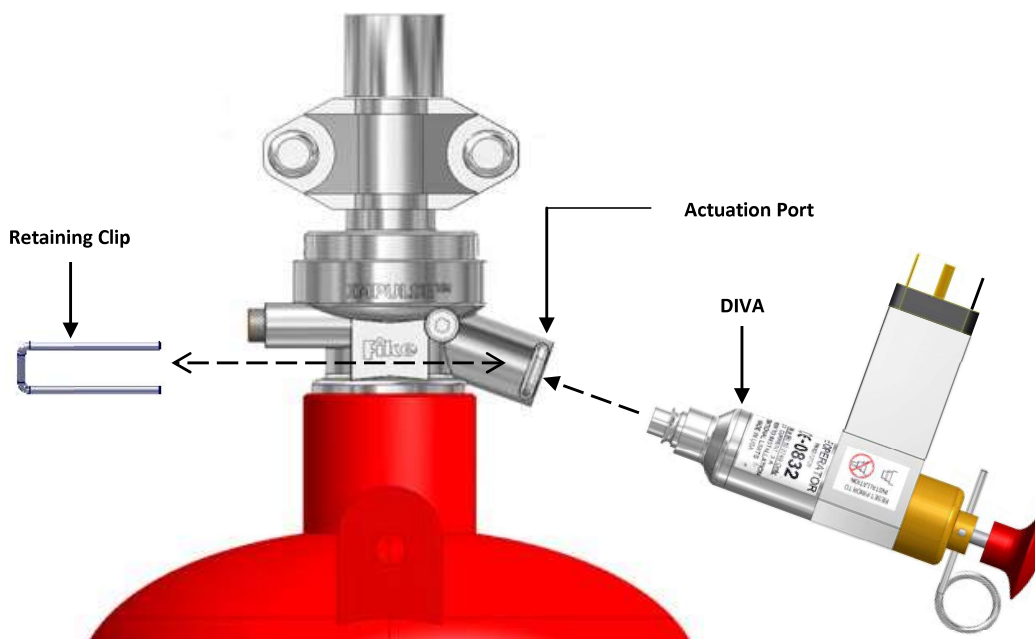
IMPORTANT NOTE: Check to ensure DIVA is armed (Firing Pin retracted) and Safety Pin is in place before installing to the Impulse Valve on the container.



Install the wire lead w/ connector (Item no. 3) to the DIVA (Item no. 1) connector and secure with set screw.

Install DIVA; remove Retaining Clip and Plastic Plug from Impulse Valve Actuation Port.

Insert DIVA into Impulse Valve Actuation Port and re-insert Retaining Clip.



WARNING: Do not attempt to install the DIVA with the firing pin in the activated (extended) position.

CAUTION: The container is **"NOW ARMED"**.

For wiring installation details between Control Panel, and the DIVA, reference page 5.

DIVA WIRING

The DIVA coil is not polarity sensitive and can be wired to a compatible control panel releasing circuit. Final termination is through the DIN connector supplied with the unit, connections are to be made to pins 2 & 3 of the plug.



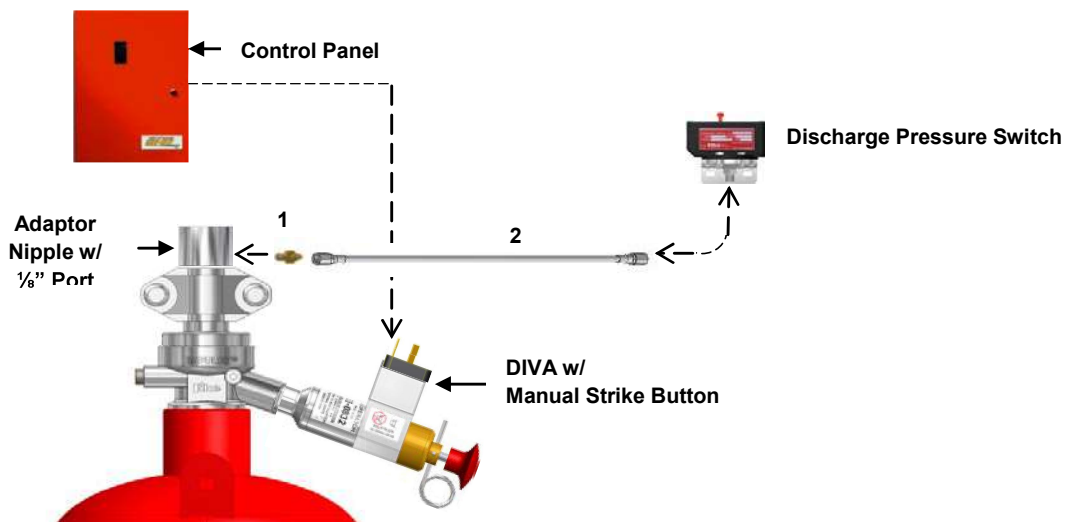
Refer to the manual & wiring requirements for the specific control panel being used to ensure proper operation.

METHODS OF ACTUATION

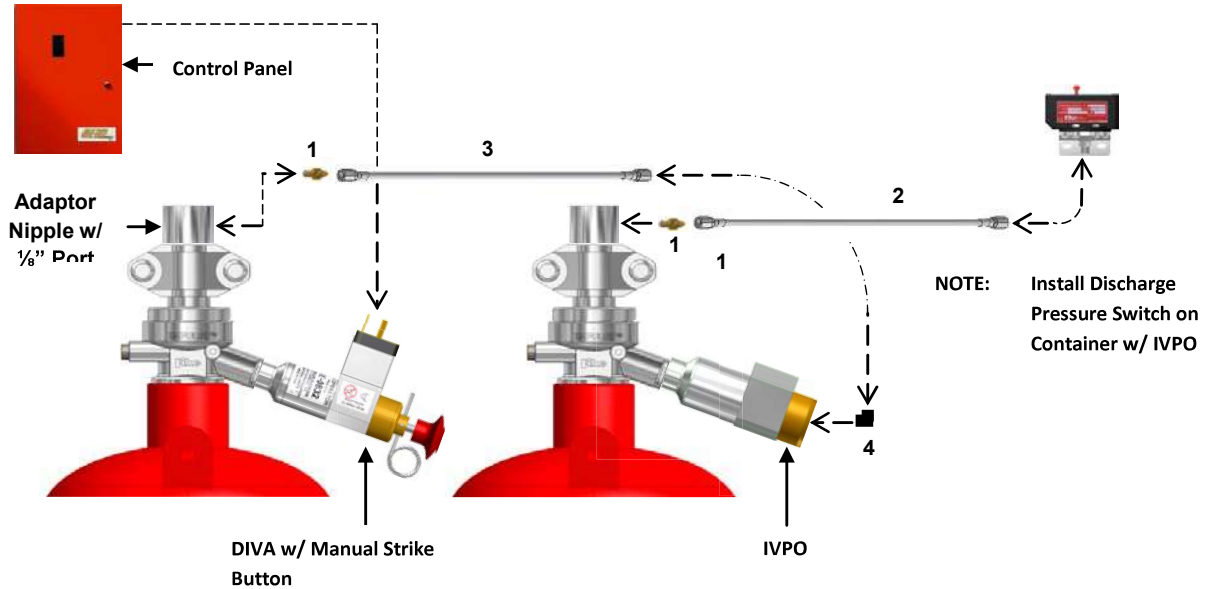
The Impulse Valve actuation system can be setup in a number of different arrangements; the following examples illustrate these methods and call up the actuation components required.

ITEM	PART NUMBER	DESCRIPTION
1	02-10797	Adaptor – 1/8" BSPT x 1/4" BSPP (supplied with Discharge Pressure Switch 02-9635)
2	02-9751	Hose – 1/4" BSPP x 1/4" BSPP x 0.7m lg. (supplied with Discharge Pressure Switch 02-9635)
3	02-10801	Actuation Hose – 1/4" JIC x 1/4" BSPP 1.0m lg. (must be ordered separately)
4	C02-1278	Elbow – 1/8" NPT x 1/4" JIC Adaptor (must be ordered separately)
5	02-13191	Run Tee – 1/8" NPT x 1/4" JIC x 1/4" JIC (must be ordered separately)
6	02-4977	Actuation Hose – 1/4" JIC x 3.0' lg. (must be ordered separately)

EXAMPLE 1: ELECTRIC ACTUATION – SINGLE CONTAINER SYSTEM W/ DIVA

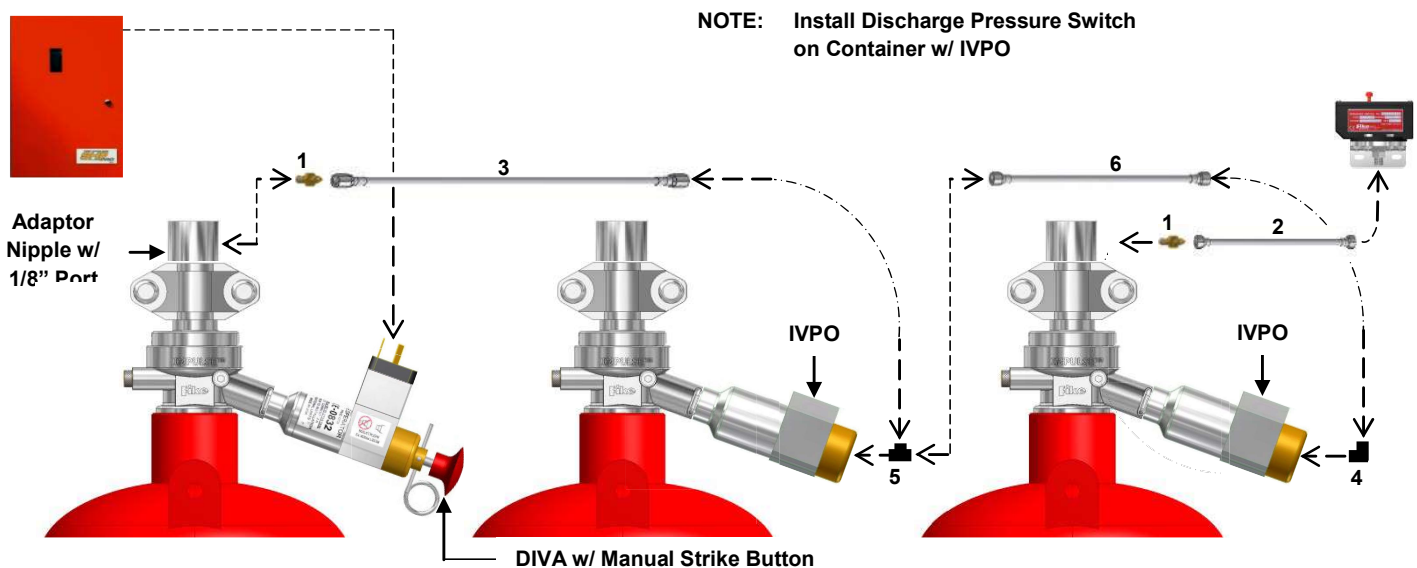


EXAMPLE 2: ELECTRIC & PNEUMATIC ACTUATION – TWO CONTAINER SYSTEM W/ DIVA & IVPO



1st remove the 1/8" NPT Plug from Adaptor Nipple, then install Actuation System as shown above. Secure Actuation tubing to a solid surface. Anchoring into plaster, sheetrock wall or any other facing material is NOT acceptable. For additional information regarding the installation and resetting of the IVPO, refer to the IVPO Component Spec (p/n 06-698-1-3).

EXAMPLE 3: ELECTRIC & PNEUMATIC ACTUATION – MULTI CONTAINER SYSTEM W/ DIVA & IVPO



EXAMPLE 4: ELECTRIC & PNEUMATIC ACTUATION – MULTI CONTAINER SYSTEM W/ DIVA & IVPO w/ ACTUATION TUBING

The illustration above shows the items required to make the proper connection between the Container equipped w/ a DIVA and the other Container(s) equipped w/ a IVPO's. The maximum length of pneumatic actuation line (including Hoses) cannot exceed 50 ft. (15.2 m) and up to 6 containers equipped w/ IVPO's.

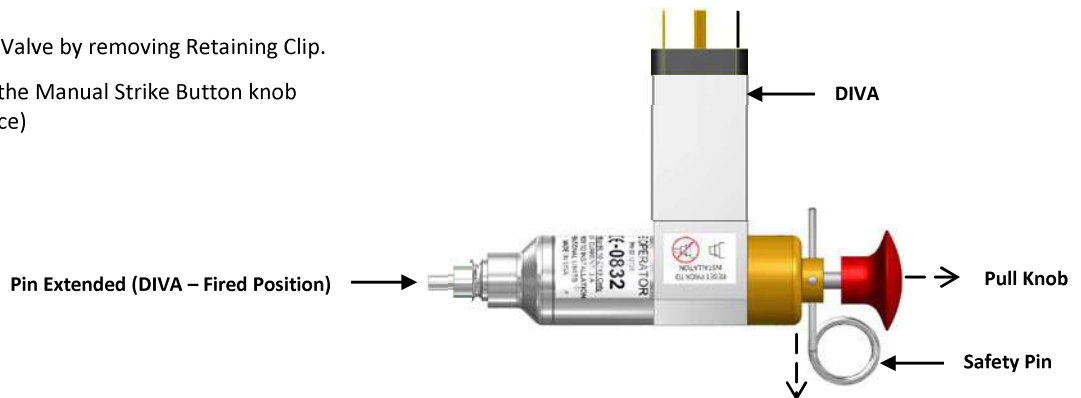
Refer back to Fike for details.

For additional information regarding the installation and resetting of the IVPO, refer to the IVPO Component Spec (p/n06-698-1-3).

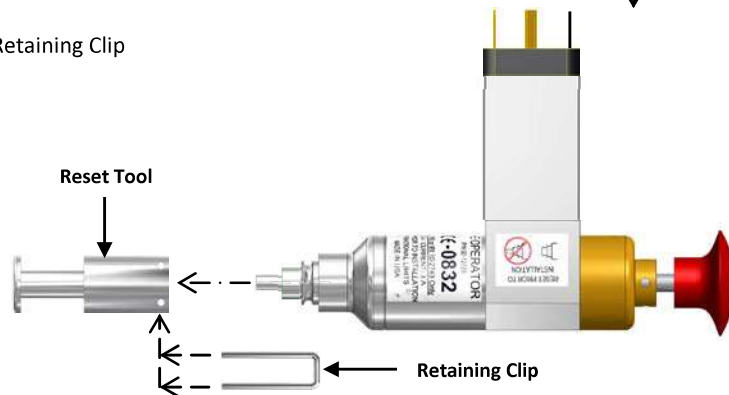
RESET INSTRUCTIONS

Remove DIVA from Impulse Valve by removing Retaining Clip.

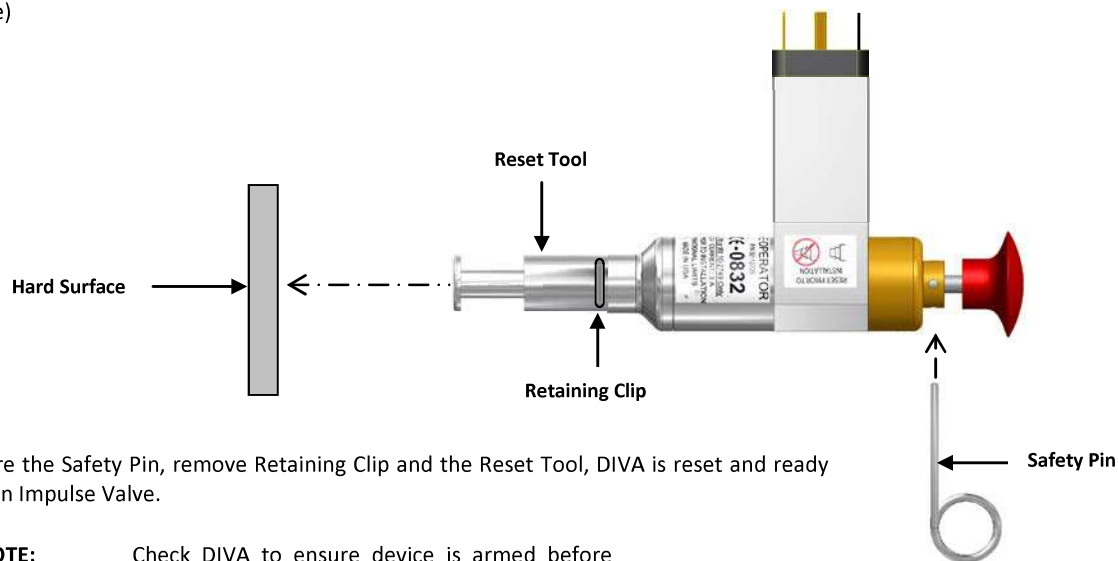
Remove Safety Pin and pull the Manual Strike Button knob until it resets (clicks into place)



Insert DIVA into Reset Tool and secure with Retaining Clip



Push Reset Tool button (firmly) against a hard surface until DIVA Pin resets (clicks into place)



Insert and secure the Safety Pin, remove Retaining Clip and the Reset Tool, DIVA is reset and ready to be installed on Impulse Valve.

IMPORTANT NOTE: Check DIVA to ensure device is armed before inserting on Impulse Valve.

