

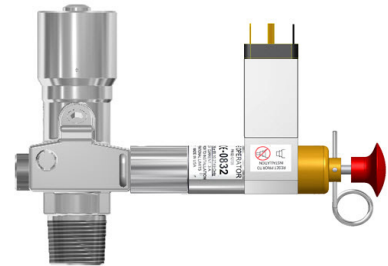
PROINERT^{®2} UNIVERSAL VALVE OPERATOR (UVO) KIT

DESCRIPTION

The Universal Valve Operator (UVO) provides means to electrically or manually activate the Fike ProInert Valve inert gas cylinder by providing the force required to extend a piston that will open the valve, allowing the agent to be released from the cylinder.

The UVO can be activated electrically via a signal from a control panel or manually by depressing red manual strike button.

Fike's Inert Gas Cylinder with ProInert Valve / UVO can be connected directly to the solenoid circuit of SHP-Pro or to the solenoid output of the RCM on the Cheetah Xi & Cheetah Xi 50 control panels. This wiring connection will be supervised for open and ground fault conditions from the container to the control panel.



SPECIFICATIONS

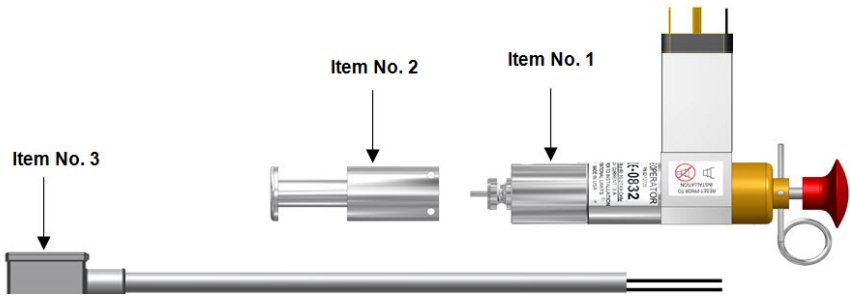
Normal Supply Voltage:	24 VDC
Current Consumption:	Alarm max. 912 mA/Supervision max. 33.4 mA - SHP PRO
(for Battery Calculation)	Alarm max. 930 mA/Supervision max. 25.4 mA - Cheetah Xi & Xi 50
Electrical Connection:	DIN Connector with Cable & 1/2" NPT for conduit connection
Material:	Stainless Steel (Body)/Brass (End Cap)
Temperature Range:	-4° to 120°F (-20° to 48.9°C)

APPROVALS

- UL Listed
- FM Approved
- ULC Listed

ORDERING INFORMATION

Universal Valve Operator (UVO) (P/N 70-315)		
Note: the following items are furnished with this kit		
Item No.	Fike P/N	Description
1	02-13571	Universal Valve Operator (UVO)
2	70-312	Reset Tool
3	02-13280	DIN (4 pin) Connector with Cable (5' long/20 gauge)
4	02-13713	Actuation Hose (not shown)



Form No. C.1.62.01

INSTALLATION

The UVO should be the last component installed on the Fike ProInert system. The following items should be completed prior to final installation of the UVO:

- Cylinder installation should be complete and secured in place
- Discharge piping installation should be complete and all bracing, brackets, etc. in place
- The discharge nozzles should be installed
- The detection & control system installation should be complete & tested – no faults shall be present

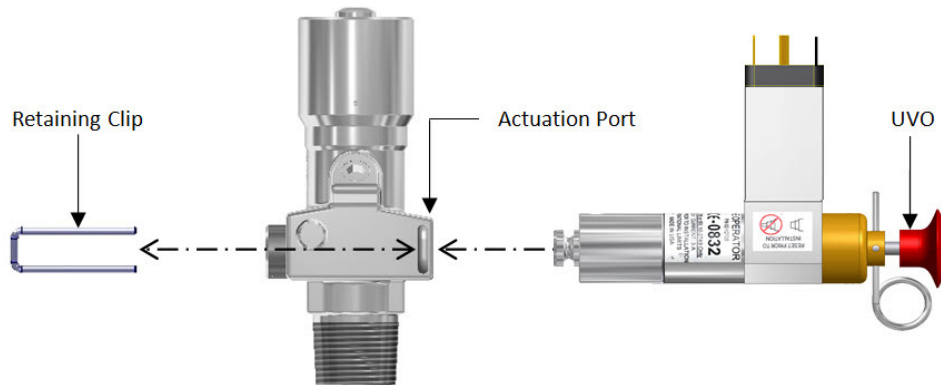
SINGLE CYLINDER SYSTEM INSTALLATION

Important Note: Check to ensure UVO is armed (Firing Pin retracted) and Safety Pin is place before installing to the ProInert Valve on the cylinder.

Step	Details
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- | | |
|---|---|
| 1 | Install the DIN connector to the UVO connector and secure with set screw. |
| 2 | Remove Retaining Clip and Plug from the ProInert Valve Actuation Port |
| 3 | Insert UVO into ProInert Valve Actuation Port and re-insert Retaining Clip. |

The cylinder is “NOW ARMED”.



MULTIPLE CYLINDER SYSTEM INSTALLATION

Important Note: Before starting installation, check to ensure all actuators are armed (Firing Pin retracted) and Safety Pin on UVO is place.

Step Details

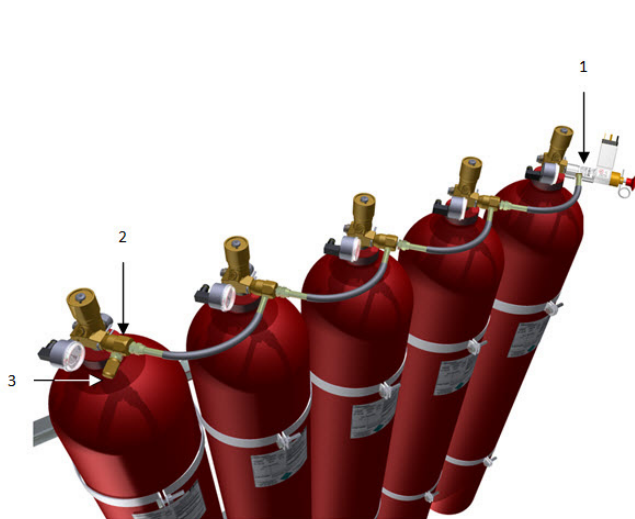
- 1 Remove hose from the last Pneumatic Actuator (Item 2 - P/N IG71-002) in the cylinder bank.
- 2 Install R $\frac{1}{8}$ " x G $\frac{1}{4}$ " Adaptor, Sealing Washer and Vent Assembly (Item 3 - P/Ns 02-10797, 02-10926 & IG71-026). Ensure that the threaded connection into the Pneumatic Actuator (Item 2) is made with either Teflon tape or thread sealant (Loctite 542 or equivalent). Install this Pneumatic Actuator to the last cylinder in the bank and secure in position with the retaining pin.
- 3 Install the remaining Pneumatic Actuators on to the cylinder valves and secure them in position with the retaining pins. Connect the hoses on these actuators in a daisy chain as shown by installing the $\frac{1}{4}$ " JIC side of Actuation Hose into the end port onto Pneumatic Actuator.

Important Note: A maximum of 60 ProInert cylinders and / or pneumatic actuators can be operated from a single UVO.

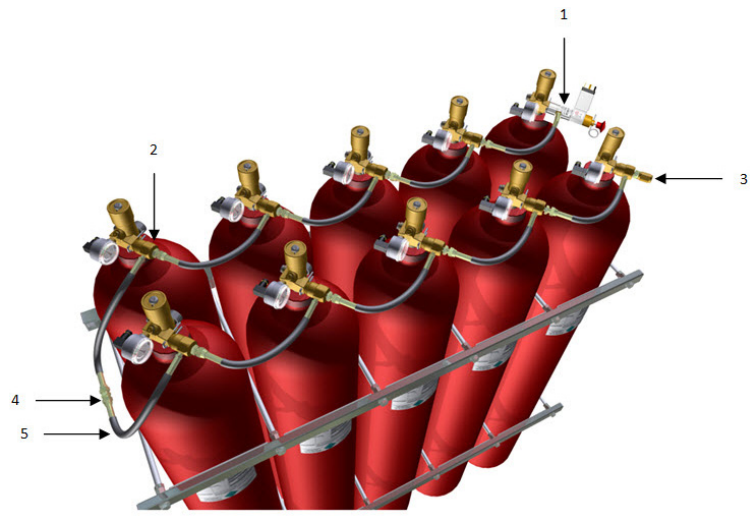
- 4 Install Actuation Hose to outlet port of UVO (Item no. 1), then to end port of next Pneumatic Actuator.
- 5 Install the DIN connector to the UVO (Item no. 1) connector and secure with set screw.
- 6 Remove Retaining Clip and Plug from the ProInert Valve Actuation Port.
- 7 Insert UVO into ProInert Valve Actuation Port and re-insert Retaining Clip.
- 8 For double / multiple row installations, connect the actuator hoses between rows with the G $\frac{1}{4}$ x G $\frac{1}{4}$ adaptor (Item 4 – P/N 02-10824) and actuation hose (Item 5 – P/N 02-13713) (these items must be ordered separately).

The cylinder is "NOW ARMED".

Note: All connections must be wrench tight.



Single Row Installation



Double Row Installation

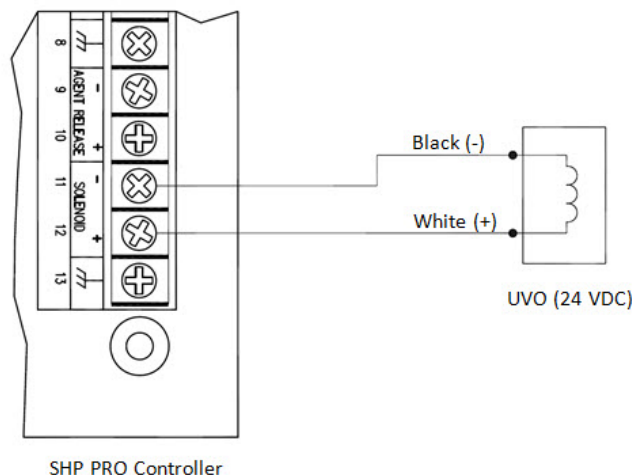
UVO WIRING

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

TYPICAL WIRING DETAIL FOR SHP PRO TO UVO

For additional details refer to the SHP PRO manual (p/n 06-297)

Note 1: Maximum 1 UVO per SHP PRO Controller



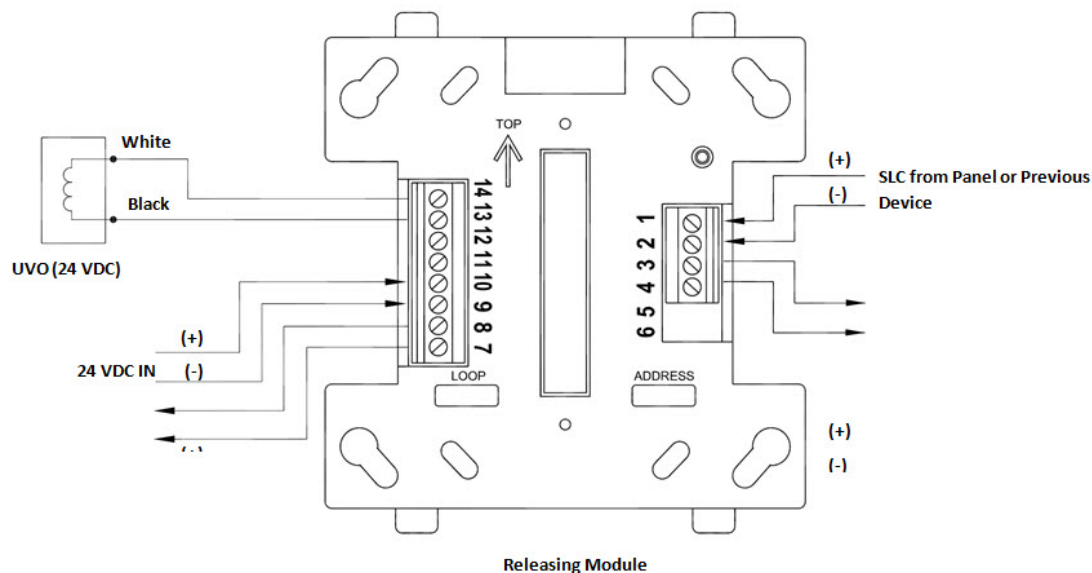
TYPICAL WIRING DETAIL FOR RCM MODULE TO UVO

For additional details refer to the following product manuals:

Cheetah Xi50 manual (p/n 06-369)

Cheetah Xi manual (p/n 06-356)

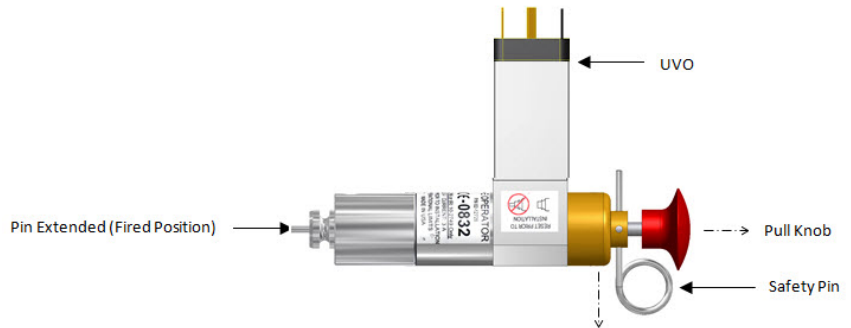
Note 2: Maximum 1 UVO per Releasing Module



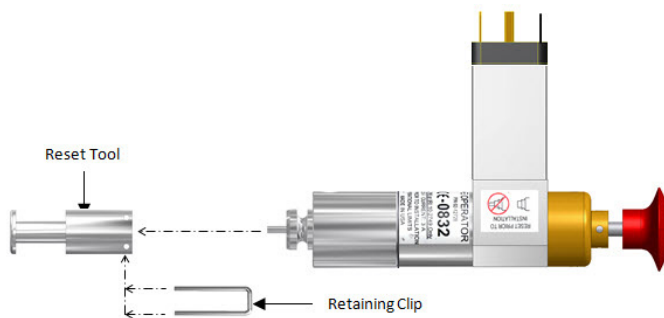
RESET INSTRUCTIONS

Remove UVO from ProInert Valve by removing Retaining Clip.

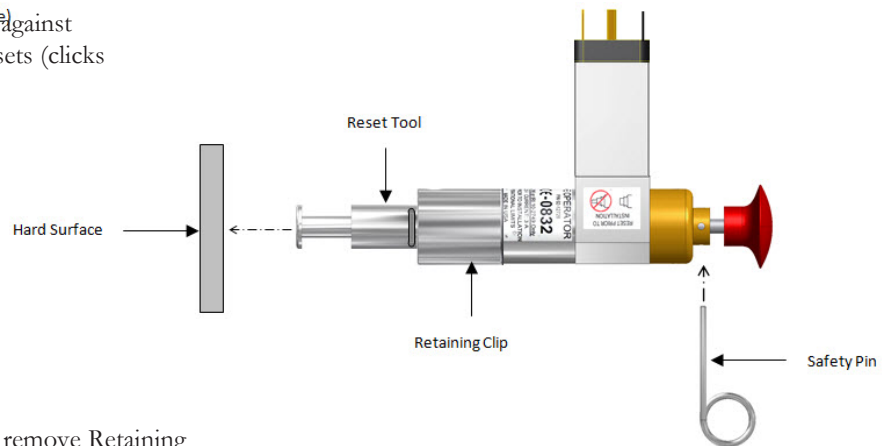
1. Remove Safety Pin and pull the Manual Strike Button knob until it resets (clicks into place)



2. Insert UVO into Reset Tool and secure with Retaining Clip

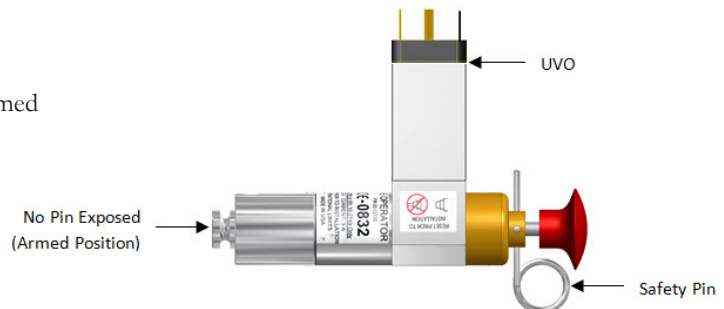


3. Push Reset Tool button (firmly) against a hard surface until UVO Pin resets (clicks into place)



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

Important Note: Check UVO to ensure device is armed before inserting on ProInert Valve.



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Form No. C.1.62.01 June, 2013 Specifications are subject to change without notice.