

## **VIZOR Electronic Dry Pipe Accelerator (EDPA) Quick-Opening Device for Dry Pipe Systems**

### **General Description**

The TYCO VIZOR Electronic Dry Pipe Accelerator (EDPA) is a quick-opening device intended to reduce the operating time of the dry pipe valves listed in Table A following operation of one or more automatic sprinklers.

Unlike traditional mechanically operated quick-opening devices, the VIZOR Accelerator is a microprocessor-based, electronic, quick-opening device. The VIZOR Accelerator automatically adjusts to both small and slow changes in system air pressure, but trips when there is a steady drop in system air pressure upon sprinkler operation.

The VIZOR Accelerator features the following:

- Direct mounting to the riser
- Installation consistent with the installation of mechanical devices
- Easy test-and-reset function, as compared to mechanical accelerators
- Operation of a dry pipe valve within four seconds — over a wide range of system volumes, system initial air pressures, and sprinkler K-factors
- Built-in low-pressure and high-pressure alarm supervision
- Electronically self-supervising technology, similar to that used in typical alarm panels for alarm and detection systems
- Battery back-up in the event of primary power failure

The VIZOR Electronic Dry Pipe Accelerator utilizes a unique, patented system air pressure monitoring design that continuously samples the system air pressure.



When the VIZOR Accelerator detects a sustained drop in air pressure, the VIZOR Accelerator energizes its internal solenoid valve.

The energized solenoid valve then opens to permit system air pressure into the intermediate chamber of the dry pipe valve.

The pressurized intermediate chamber neutralizes the differential pressure holding the dry pipe valve closed and permits the dry pipe valve to trip and flow water into the system piping.

#### **NOTICE**

*The VIZOR Electronic Dry Pipe Accelerator described herein must be installed and maintained in compliance with this document and with the applicable standards of the National Fire Protection Association, in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the performance of this device.*

*Owners are responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.*

*For additional information, refer to the Potter Electric Signal Company Data Sheet 5401212.*

# Technical Data

## NOTICE

Quick operation of the TYCO VIZOR Electronic Dry Pipe Accelerator does not ensure that the fire protection system will meet the water delivery time requirement of the authority having jurisdiction (following opening of the Inspector's Test Connection). The sprinkler system designer has to be aware that water delivery time is primarily determined by the configuration and volume of the piping network, system air pressure at the time of accelerator trip, number and orifice size of open sprinklers, and water supply characteristics. It is essential for the designer to verify the impact of these site-specific factors on water delivery time.

## Approvals

Listings and approvals are under the name of Potter Electric Signal Company Electric Dry Pipe Accelerator (EDPA). Refer to Table A for Listings and Approvals for use of the VIZOR Accelerator with specific dry pipe valves.

- UL and ULC Listed  
The VIZOR Accelerator is UL and ULC Listed per UL1486 for a maximum system capacity of 1690 gallons (6397 liters) for a single nominal 5.6 K-factor sprinkler and a maximum working water pressure of 300 psi (20,7 bar).

- FM Approved  
The VIZOR Accelerator is FM Accepted based on the sensitivity criteria provided in Graph A and a maximum working water pressure of 300 psi (20,7 bar).

**Maximum Water Pressure**  
300 psi (20,7 bar)

**Air Pressure**  
10 to 65 psi (0,69 to 4,48 bar)

**Pressure Decay For Trip**  
0.1 psi/sec. (0,007 bar/s)

**High/Low Pressure Settings**  
Refer to Table B.

## VIZOR Environmental Specifications

- VIZOR Accelerator  
NEMA 2, Indoor use  
40°F to 120°F (4°C to 49°C)
- Battery Cabinet  
NEMA 1, Indoor use  
32°F to 120°F (0°C to 49°C)

**Power Requirements**  
Maximum 0.75 A @ 120/220 AC

## Batteries (Separately ordered)

- Standard  
24-hour battery back-up provided by two 12-volt (1.3 AH) Batteries
- Optional  
90-hour battery back-up provided by two 12-volt (5 AH) Batteries

## Battery Current Draw

Standby: 43 ma; Alarm: 440 ma

## Dry Contact Rating

Trouble: 5 A @ 30 VDC  
High/Low: 5 A @ 30 VDC

## Installation Dimensions

Refer to Figure 6.

## NOTICE

When the VIZOR Accelerator is installed in accordance with these instructions, the equipment's design provides reasonable protection against limited radio frequency sources. **Intentionally subjecting the equipment to radio frequency sources could result in unintended operation of the dry pipe system.**

## VIZOR Accelerator Indicators and Controls

Refer to Figures 1 and 2.

- **AC Power (Green LED):** On steady when AC power is present
- **Trouble/Supervisory (Amber LED):** On steady for Trouble, 1 flash per second (slow) for low pressure, 4 flashes per second (fast) for high pressure
- **Battery Trouble (Amber LED):** On steady for low battery
- **Tripped (Red LED):** Flashes for 30 seconds to indicate the solenoid is open and the VIZOR Accelerator is tripped; lights steady after 30 seconds indicating the solenoid is closed
- **S1 (Two-Position Switch):** Up to SET to place the VIZOR Accelerator in service when air pressure matches rotary switch setting; down to OFF to take the VIZOR Accelerator out of service
- **S2 (Two-Position Momentary Switch):** Up to RESET to reset the VIZOR Accelerator after activation; down to SILENCE to silence the buzzer
- **Buzzer:** Indicates any trouble or supervisory condition by sounding an audible alarm
- **Trouble Dry Contacts (Normally Open):** Activate on any trouble condition such as low batteries or when S1 is pushed into the OFF position; activate on a loss of AC power after 60 minutes
- **High/Low Dry Contacts (Normally Open):** Activate when system pressure is outside of the normal setting of the rotary switch

## Patent

U.S.A. No. 5,971,080

Manufacturer/Valve Model	Valve Size ANSI Inches (DN)	UL Listed	FM Approved
<b>TYCO</b> Model DPV-1	4 and 6 (DN100/150)	X	X
<b>Central</b> Model AF Model AG/AG	3, 4, and 6 (DN80/100/150)	X	See note.
<b>Gem</b> Model F302 Model F3021	4 and 6 (DN100/150)	X	See note.
<b>Star</b> Model A Model A1	4 and 6 (DN100/150)	X	See note.

Note: For retrofit applications, the EDPA Electronic Accelerator Systems are acceptable by FM Approvals for use with these dry valves that are no longer manufactured.

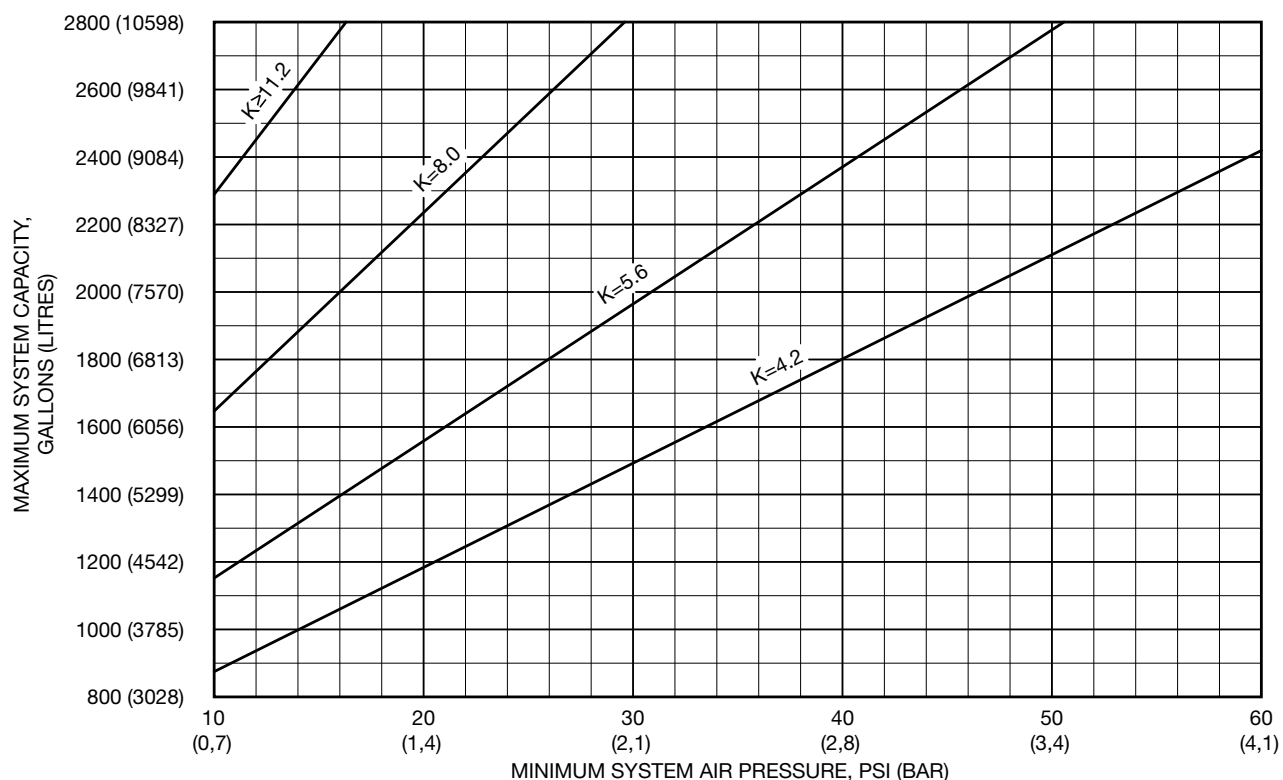
**TABLE A**  
**LABORATORY LISTINGS AND APPROVALS FOR**  
**DRY PIPE VALVE COMPATIBILITY**



**FIGURE 1**  
**VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— FRONT VIEW WITH COVER CLOSED —**

Switch Setting	Low Air Threshold PSI (Bar)	Nominal Pressure PSI (Bar)	High Air Threshold PSI (Bar)
0	7 (0,48)	10 (0,69)	15 (1,04)
1	7 (0,48)	15 (1,04)	20 (1,38)
2	15 (1,04)	20 (1,38)	25 (1,72)
3	15 (1,04)	25 (1,72)	30 (2,07)
4	20 (1,38)	30 (2,07)	35 (2,41)
5	25 (1,72)	35 (2,41)	40 (2,76)
6	30 (2,07)	40 (2,76)	45 (3,10)
7	35 (2,41)	45 (3,10)	50 (3,45)
8	45 (3,10)	55 (3,79)	60 (4,14)
9	55 (3,79)	65 (4,48)	70 (4,83)

**TABLE B**  
**VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— HIGH/LOW PRESSURE SETTINGS —**



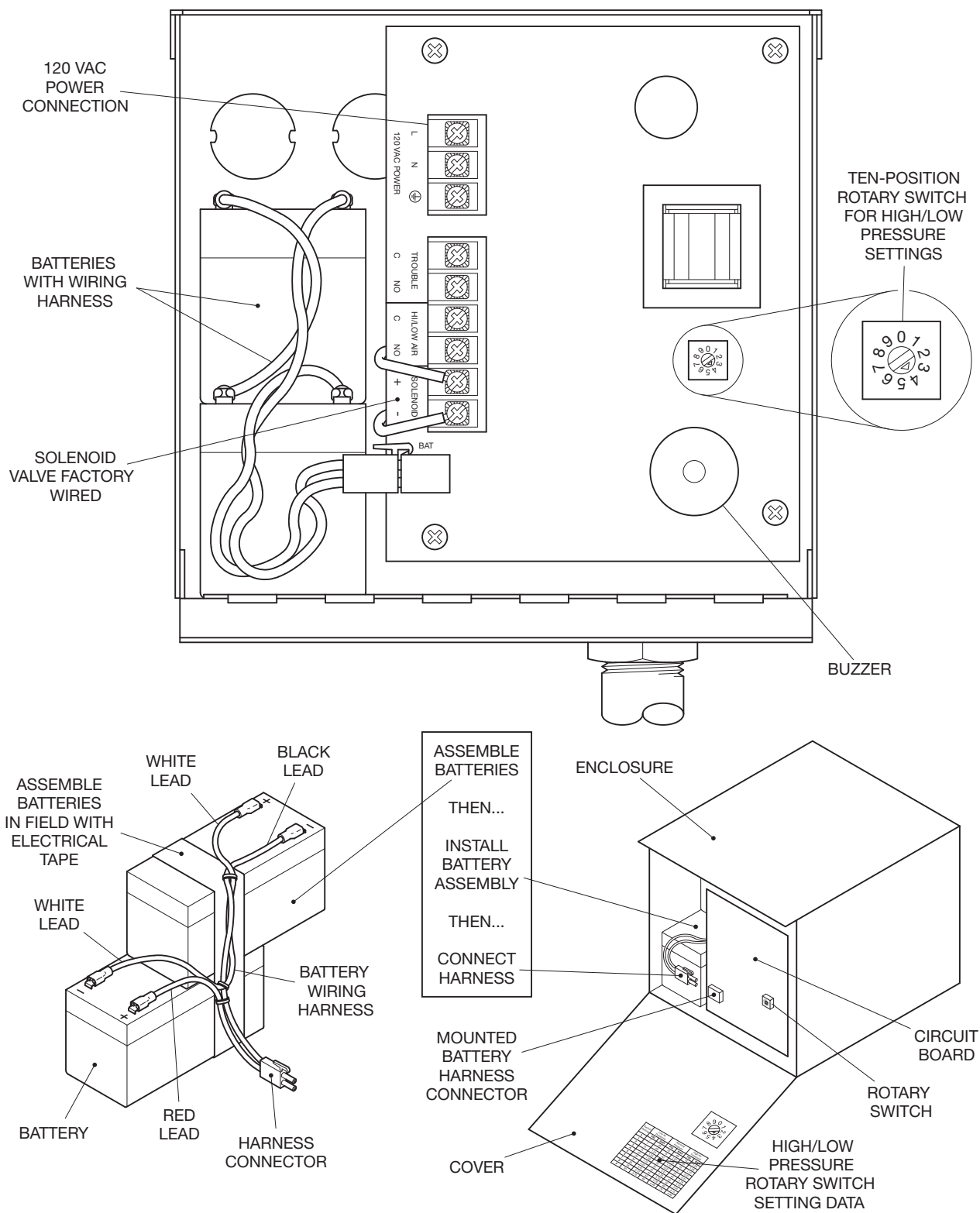
#### Notes

1. Quick operation of the TYCO VIZOR Electronic Dry Pipe Accelerator does not ensure that the fire protection system will meet the water delivery time requirement of the authority having jurisdiction (following opening of the Inspector's Test Connection). The sprinkler system designer has to be aware that water delivery time is primarily determined by the configuration and volume of the piping network, system air pressure at time of Accelerator trip, number and orifice size of open sprinklers, and water supply characteristics. It is essential for the designer to verify the impact of these site-specific factors on water delivery time.
2. The sensitivity criteria for the VIZOR Accelerator is a function of its pressure decay for trip rating of 0.1 psi (0,007 bar) per second, as well as the system volume, the K-factor of the sprinklers being utilized, and the minimum initial air pressure. The larger the system volume combined with smaller sprinkler K-factor or lower initial air pressure results in a slower air decay rate upon the first sprinkler operation. Conversely, a smaller system volume combined with a larger sprinkler K-factor or higher initial air pressure results in a faster air decay rate.
3. When the sprinkler system has been designed within the criteria provided by Graph A, operation of the VIZOR Accelerator and subsequent operation of the associated dry pipe or preaction valve can be expected within four seconds. In the case of the double interlock preaction system, operation is based on the electric detection system operating before a first sprinkler operation.
4. The minimum system air pressure must be the greater of that required for the dry pipe / preaction valve as a function of the maximum expected water supply pressure or per Graph A when using the VIZOR Accelerator.
5. When considering multiple sprinkler operations as in the case of using a dry system water delivery design per NFPA 13, use the "11.2 K-factor and larger" curve as referenced in Example 3 below.

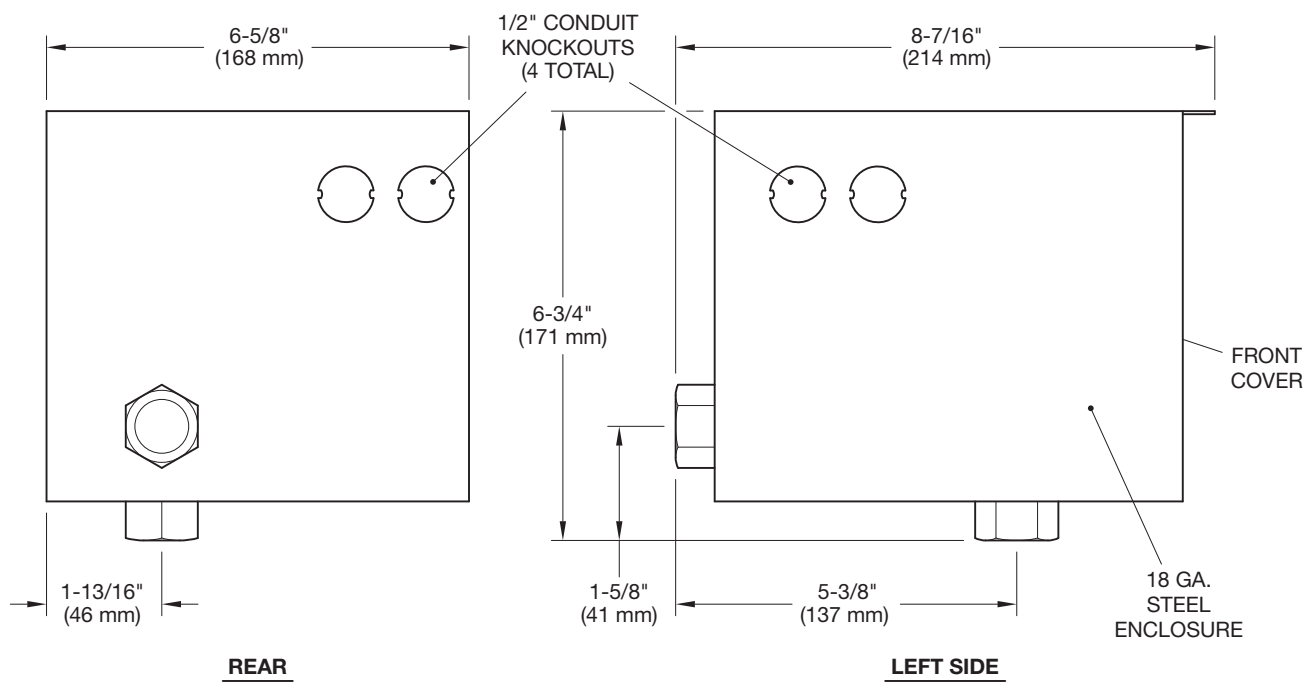
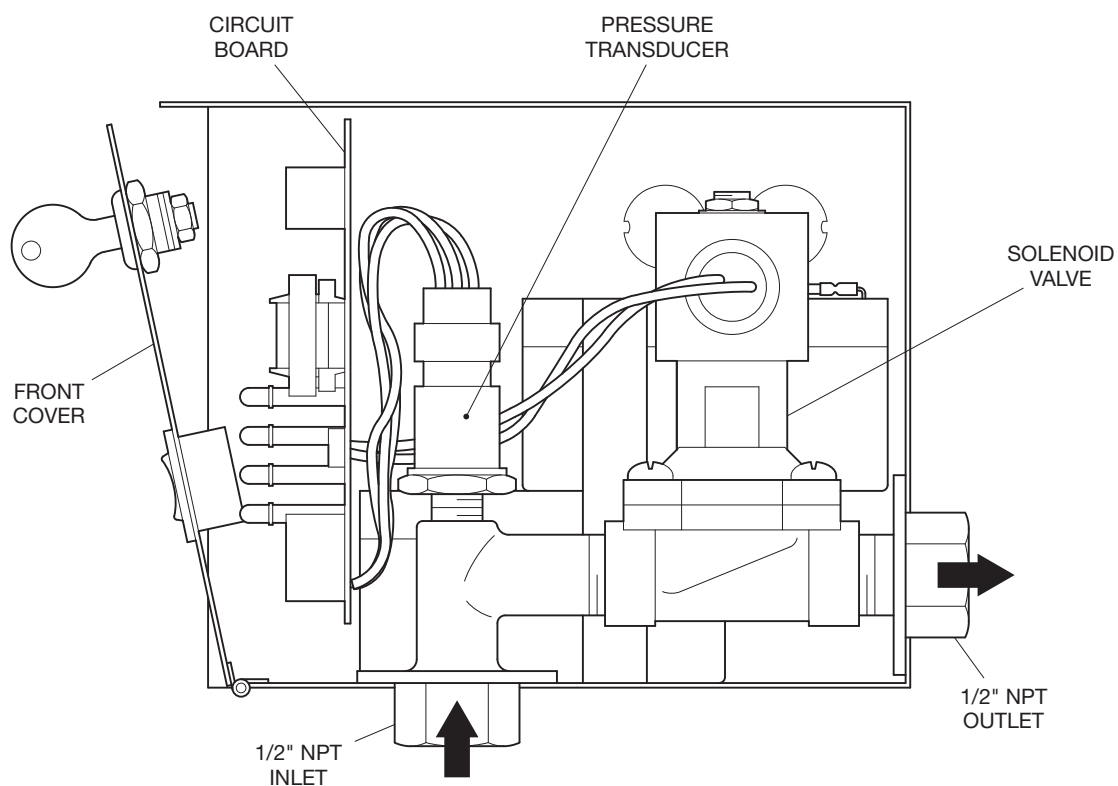
#### Examples

1. For a system volume of 1500 gallons (5680 liters) and the use of sprinklers having a K-factor of 5.6, the minimum system air pressure must be 18.5 psi (1,3 bar).
2. For a system volume of 2000 gallons (7570 liters) and the use of sprinklers having a K-factor of 8.0, the minimum system air pressure must be 16.0 psi (1,1 bar).
3. With the use of a dry system water delivery design per NFPA 13, wherein the operation of two 5.6 K-factor sprinklers might be anticipated (and the effective K-factor is then 11.2), the "11.2 K-factor and larger" curve can be utilized. Consequently, for a system volume of 2400 gallons (9084 liters), the minimum system air pressure must be 11.5 psi (0,8 bar).

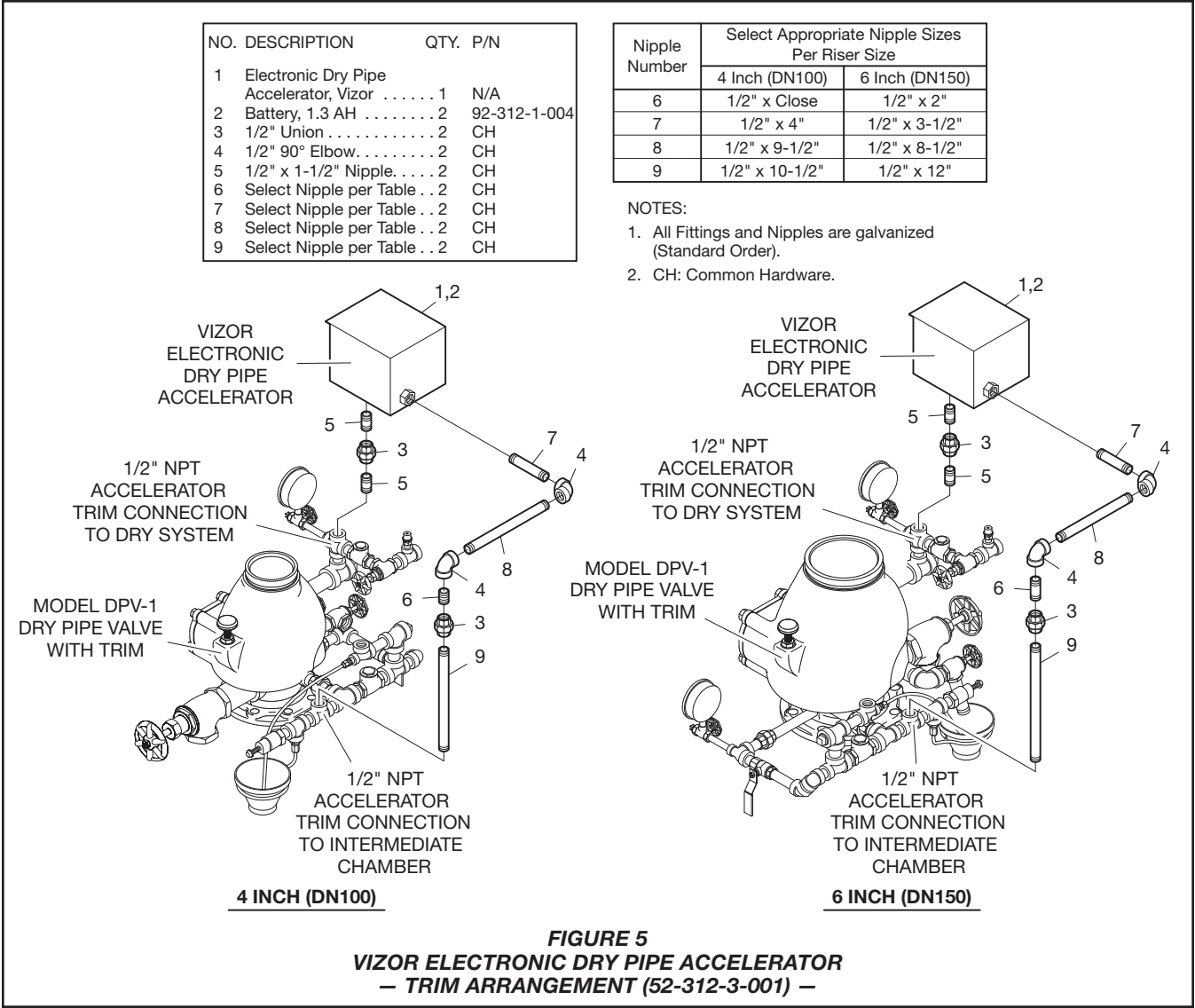
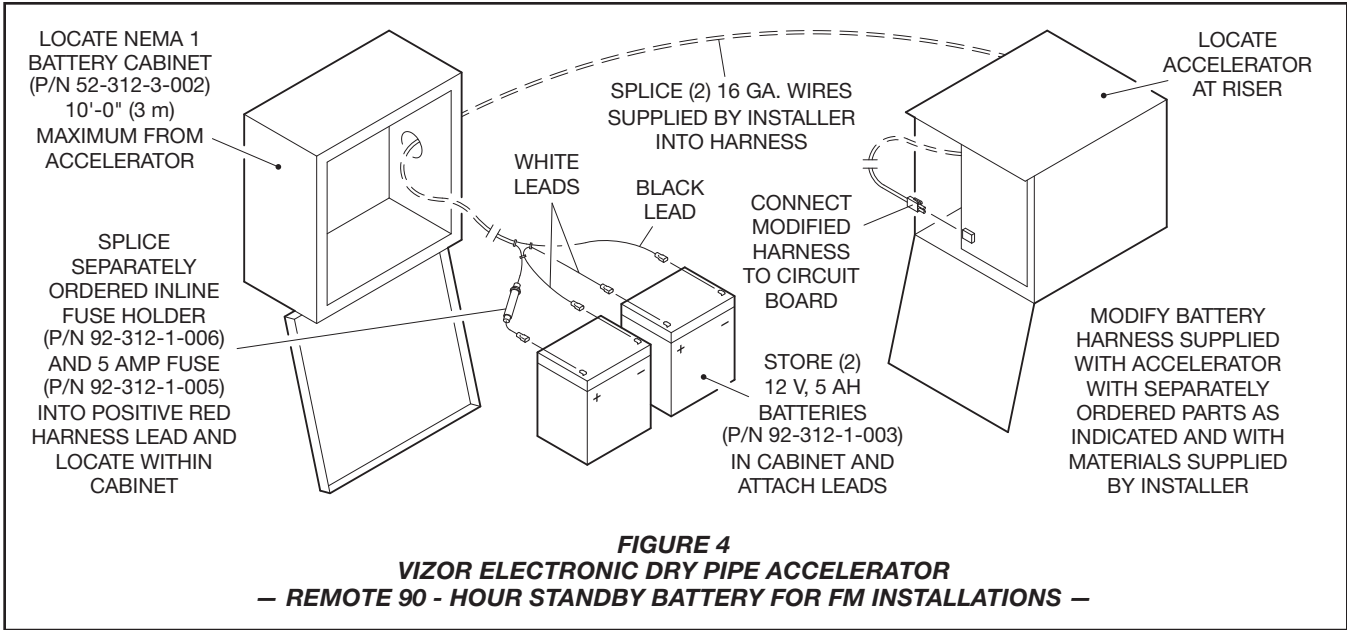
**GRAPH A**  
**TYCO VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— SENSITIVITY CRITERIA BASED ON FM APPROVAL —**



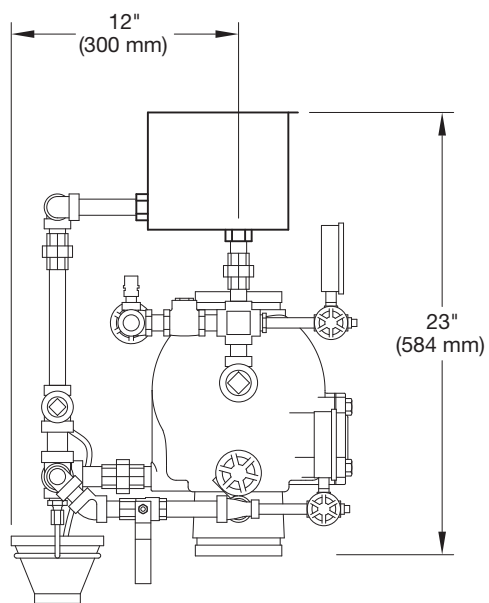
**FIGURE 2**  
**VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— FRONT VIEW WITH COVER OPEN —**



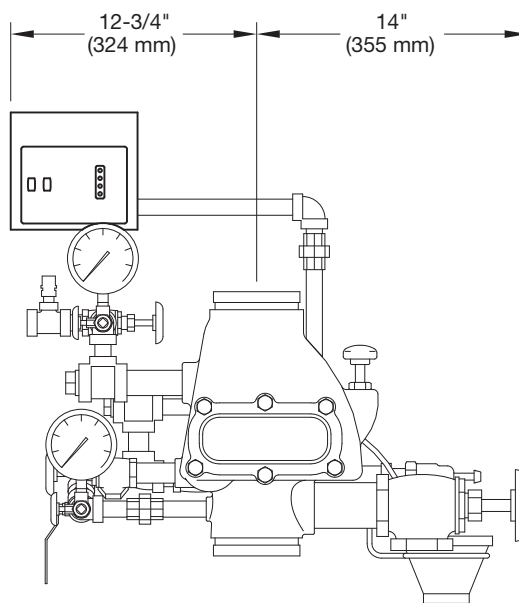
**FIGURE 3**  
**VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— ASSEMBLY —**





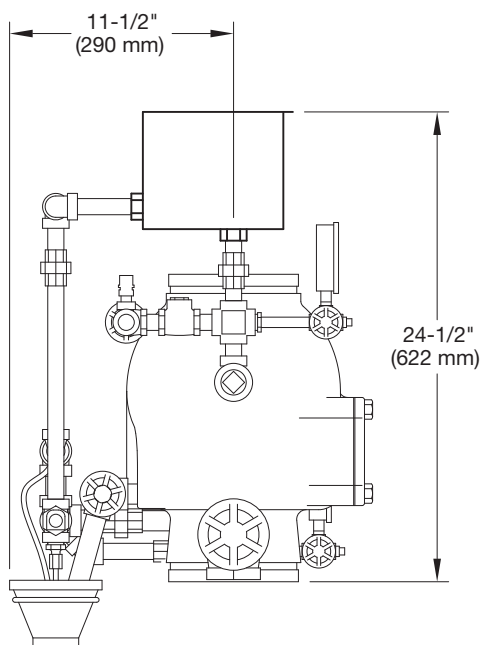


LEFT SIDE

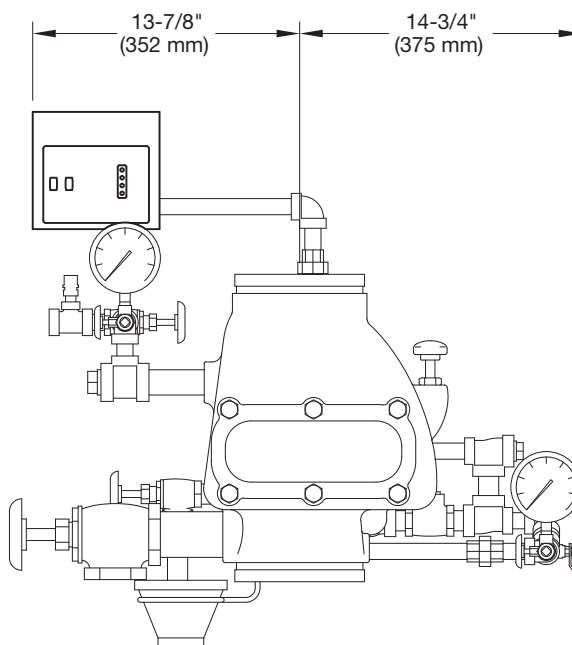


FRONT

**4 INCH (DN100)**



LEFT SIDE



FRONT

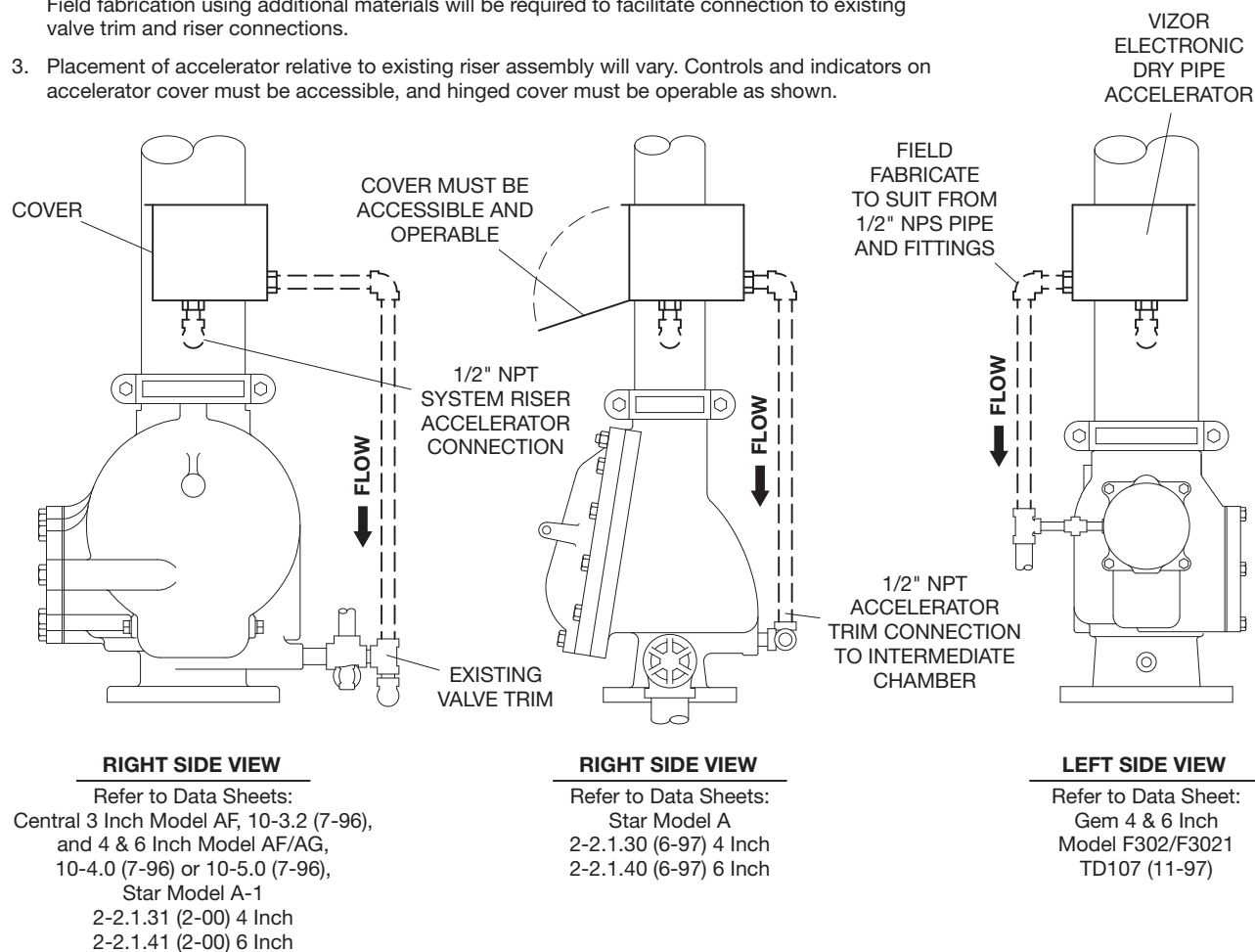
**6 INCH (DN150)**

**FIGURE 6**  
**VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— INSTALLATION DIMENSIONS FOR TYCO MODEL DPV-1 —**



**NOTES:**

1. Installation notations are typical for all Dry Pipe Valve models shown.
2. Some items provided with VIZOR Accelerator Trim (P/N 52-312-3-001) may be used for retrofit. Field fabrication using additional materials will be required to facilitate connection to existing valve trim and riser connections.
3. Placement of accelerator relative to existing riser assembly will vary. Controls and indicators on accelerator cover must be accessible, and hinged cover must be operable as shown.



**FIGURE 7**  
**VIZOR ELECTRONIC DRY PIPE ACCELERATOR**  
**— INSTALLATIONS FOR DRY PIPE VALVES MANUFACTURED BY CENTRAL, GEM, AND STAR —**

## Operation

The TYCO VIZOR Electronic Dry Pipe Accelerator provides a microprocessor-based, electronic, dry pipe valve accelerator designed to monitor the air pressure in a dry pipe system and reduce the time it takes for the dry pipe valve to operate following the opening of one or more sprinklers. The VIZOR Accelerator can be used in new installations or to replace mechanical type accelerators in existing systems.

The VIZOR Accelerator operates upon detection of a steady drop in air pressure of 0.1 psi per second (0,007 bar/s) or greater, or if the pressure drops to 5.5 psi (0,38 bar). The VIZOR Accelerator typically responds to an open sprinkler in approximately 2 seconds.

**Note:** Although the VIZOR Accelerator is designed to respond to an open sprinkler in approximately 2 seconds, operation of the dry pipe valve is expected within 4 seconds. The difference of 2 seconds is a conservative estimation for the dry pipe valve to physically trip.

Upon detection of a drop in air pressure, the VIZOR Accelerator opens an internal solenoid valve allowing system air pressure into the intermediate chamber of the dry pipe valve. The pressurized intermediate chamber neutralizes the differential pressure holding the dry pipe valve closed and permits the valve to open. The solenoid valve automatically closes after 30 seconds.

The VIZOR Accelerator contains two sets of normally open, dry contacts. The High/Low Supervisory Contacts close if the normal system air pressure in the system increases or decreases beyond a given point (refer to Table B). The ten-position rotary switch (refer to Figure 2) provides ten preset pressure settings. The factory setting is position #4 for a normal system air pressure of 30 psi.

The Trouble Dry Contacts close during any one of the following conditions:

- Low-battery condition (up to a 1-minute delay is normal)
- AC power loss (after a 60-minute delay)
- SET/OFF switch in the OFF position

An internal buzzer sounds during any off-normal condition.

## Installation

The TYCO VIZOR Electronic Dry Pipe Accelerator must be installed in accordance with the following instructions.

### NOTICE

*When working on the VIZOR Accelerator or the dry pipe valve, S1 should be in the OFF position; otherwise, the dry valve can inadvertently trip.*

*Make all pipe fitting connections to the VIZOR Accelerator inlet and outlet ports by using the wrench flats on the VIZOR Accelerator. DO NOT tighten connections by grasping the VIZOR Accelerator housing. Failure to do so may result in damage to the components within the device.*

*Install all required conduits and make all connections with AC power off. The VIZOR Accelerator must be hardwired to complete the installation.*

*During installation, the buzzer may sound. Silence the buzzer at any time by momentarily pushing S2 to the SILENCE position.*

*The VIZOR Accelerator must be installed according to applicable NFPA codes (for example, NFPA 13, 70, and 72) as well as all local installation codes.*

1. Install the VIZOR Accelerator as shown in Figures 6 and 7. Apply pipe-thread sealant sparingly to male threads only.
2. Following Figure 2 and Table B, set the Ten-Position Rotary Switch to the required setting using the provided screw driver.
3. As shown in Figure 2, tape the 12V, 1.3 AH Batteries together. Connect the Harness wires (Leads in Figure 2) to the Batteries, slide the Battery Assembly into the Housing, and plug the Harness Connector into the VIZOR Accelerator circuit board.

For the optional 90-hour batteries, mount the Remote Battery Enclosure horizontally and within 10 feet of the VIZOR Accelerator. Splice the battery cable (Figure 4), connect the cable to the Batteries, then plug the Battery Assembly into the VIZOR Accelerator Harness. Lastly, plug the Harness Connector into the VIZOR Accelerator circuit board.

4. Close and lock the cover.
5. Push S1 to the OFF position.

6. In order to minimize an inadvertent primary (A/C) power loss and to facilitate maintenance, it is recommended that a dedicated circuit be hardwired to the VIZOR Accelerator. The following notifications occur:

- The Green AC LED lights, the Amber Trouble / Supervisory LED lights, the Red Tripped LED lights, and the buzzer sounds.
- Assuming the batteries are charged, the Amber Battery Trouble LED remains unlit.

7. Optionally conduct trip tests of the VIZOR Accelerator and the dry pipe valve in accordance with the Care and Maintenance section.
8. Optionally, and/or if required by local jurisdiction, hardwire a monitoring circuits to the VIZOR Accelerator's Trouble and High/Low supervisory contacts using 14 to 18 AWG wire.
9. Push S1 to the SET position.
10. Verify proper operation of the VIZOR Accelerator using the "No Flow Trip Test for Accelerator Only" procedure described in the Care and Maintenance section.

## Setting Procedure

As soon as possible after an operation, reset and restore to service the Dry Pipe Valve (listed in Table A) and the TYCO VIZOR Electronic Dry Pipe Accelerator.

### NOTICE

*Completely drain the system before proceeding.*

*After setting a fire protection system, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.*

1. Push S1 to the OFF position.
2. Silence the internal audible alarm at any time by momentarily pushing S2 to the Silence position.
3. Locate of all of the system's low point drain valves to help facilitate resetting of the system. Refer to the appropriate dry valve data sheet for valve resetting procedures.
4. Follow the resetting procedure for the installed dry pipe valve. When the procedure calls for the system piping to be pressurized with air, start to pressurize the system and then proceed to Step 5.

5. When the system reaches an air pressure of approximately 10 psi and while the system is in the process of reaching its intended pressure, “blow-down” each drain valve. Be sure to include the low body drains at the dry pipe valve and the Inspector’s Test Connection.

To “blow-down”, open each drain valve individually, and when water stops draining, close the drain valve. This blow-down procedure assures that complete draining of the system can be more easily accomplished.

6. When the system reaches the normal operating pressure, momentarily push S2 to the RESET position to clear the Red Tripped LED, and then push S1 to the SET position.
7. After waiting at least 30 seconds, open the Inspector’s Test Connection, wait 5 seconds, and then close the Inspector’s Test Connection.

With the VIZOR Accelerator installed, verify that the time-to-trip for the accelerator is essentially the same as in previous tests. A momentary burst of air from the dry pipe valve’s automatic drain valve indicates that the VIZOR Accelerator has tripped. In addition, the Red Tripped LED will light.

This procedure also clears scale and debris from the pipe and fittings that are connected to the VIZOR Accelerator.

8. Push S1 to the OFF position, allow the system to automatically return to its intended pressure via its automatic air supply, momentarily push S2 to the RESET position, and then push S1 to the SET position.
9. Partially open the Main Control Valve. Slowly close the system’s Main Drain Valve as soon as water discharges from the drain connection.
10. Depress the plunger on the dry pipe valve’s automatic drain valve to verify that it is open and that no water discharges. The absence of water discharge from the automatic drain valve is an indication of a properly set water seat within the dry pipe valve.

If water is discharging, refer to the Care and Maintenance section within the technical data sheet for the dry pipe valve to determine/correct the cause of the leakage problem.

If there are no leaks, fully open the system’s Main Control Valve.

The system is now set for service.

## Care and Maintenance

The TYCO VIZOR Electronic Dry Pipe Accelerator must be inspected and maintained in accordance with the NFPA. The following test procedures must be performed in addition to any specific requirements of the NFPA. Any impairment must be immediately corrected.

In accordance with the requirements of NFPA 25 and 72, one of the trip tests described in this section must be performed quarterly. Battery tests also described here must be performed semi-annually and annually.

### NOTICE

*The VIZOR Accelerator uses electronic components to monitor the system air pressure. Keep all radio transmitters or RF sources at least one foot from the VIZOR Accelerator. Failure to do so could result in an unintended operation of the dry pipe system.*

*Notify the proper authorities and all personnel who may be affected before temporarily disabling the VIZOR Accelerator or performing an alarm test.*

*Before closing a fire protection system main control valve on the system that it controls, obtain permission from the proper authorities to shut down the affected fire protection system and notify all personnel who may be affected by this action.*

*The VIZOR Accelerator must be in a normal condition for 60 seconds before conducting a trip test. Failure to wait 60 seconds after air pressure has reached the normal level will result in a failed test.*

*Responsibility lies with the owner for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (for example, NFPA 25 and 72), in addition to the standards of any authority having jurisdiction. Contact the installing contractor or product manufacturer regarding any questions.*

*Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service.*

### Full Flow Trip Test: Valve and Accelerator

1. Open the Inspector’s Test Connection. Verify that the VIZOR Accelerator trip-time is essentially the same as in previously performed tests. Also, make sure that the following notifications occur (refer to Figure 1):
  - Red Tripped LED lights
  - Amber Trouble/Supervisory LED flashes 4 times per second (fast)
  - Buzzer sounds
  - High/Low Contacts transfer
2. Verify that the dry pipe valve tripped and that the time for water delivery to the Inspector’s Test Connection is essentially the same as in previous tests.
3. After verification of water delivery to the Inspector’s Test Connection, close the system’s Main Control Valve and reset the system.

### Partial Flow Trip Test: Valve and Accelerator

1. Close the system’s Main Control Valve and then open the system’s Main Drain Valve to relieve the supply pressure to the dry pipe valve.
2. Partially open the system’s Main Control Valve at least to the point at which water can be heard flowing through the system’s Main Drain Valve, and then slowly close the system’s Main Drain Valve.
3. Additional turns may be necessary to ensure latching of the appropriate dry pipe valve; refer to the appropriate technical data sheet.
4. Open the Inspector’s Test Connection. Verify that the time-to-trip for the VIZOR Accelerator is essentially the same as in previous tests. A momentary burst of air from the dry pipe valve’s automatic drain valve indicates that the VIZOR Accelerator has tripped. Also, verify that the following notifications occur (refer to Figure 1):
  - Red Tripped LED lights
  - Amber Trouble/Supervisory LED flashes once per second (slow)
  - Buzzer sounds
  - High/Low Contacts transfer
5. Verify that the dry pipe valve tripped and waterflow alarms operate.
6. Immediately after verification of the dry pipe valve trip, close the system’s Main Control Valve and reset the system.

**No Flow Trip Test: Accelerator Only**

1. Close the system's Main Control Valve and then open the system's Main Drain Valve to relieve the supply pressure to the dry pipe valve.
2. Open the Inspector's Test Connection. Verify that the time-to-trip for the VIZOR Accelerator is essentially the same as in previous tests. A momentary burst of air from the dry pipe valve's automatic drain valve indicates that the VIZOR Accelerator has tripped. Also, make sure that the following notifications occur (refer to Figure 1):
  - Red Tripped LED lights
  - Amber Trouble/Supervisory LED flashes once per second (slow)
  - Buzzer sounds
  - High/Low Contacts transfer
3. Reset the system.

**Battery Tests**

Perform the following tests to verify that the batteries are connected and working and to verify battery levels.

• **Battery Connections**

Perform this test semi-annually.

1. Open the Battery Housing and unplug the Batteries from the VIZOR Accelerator circuit board.
2. Verify that the VIZOR Accelerator registers battery trouble and sounds the internal audible alarm.
3. Press S2 to the Silence position.
4. Plug the Batteries back into the VIZOR Accelerator circuit board and close the Housing.
5. Verify battery trouble clears.

• **Battery Levels**

Perform a battery load test annually. An alarm-and-detection technician can perform this test.

## Limited Warranty

Products manufactured by Tyco Fire Suppression & Building Products (TFSBP) are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by TFSBP. No warranty is given for products or components manufactured by companies not affiliated by ownership with TFSBP or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by TFSBP to be defective shall be either repaired or replaced, at TFSBP's sole option. TFSBP neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. TFSBP shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

In no event shall TFSBP be liable, in contract, tort, strict liability or under any other legal theory, for incidental, indirect, special or consequential damages, including but not limited to labor charges, regardless of whether TFSBP was informed about the possibility of such damages, and in no event shall TFSBP's liability exceed an amount equal to the sales price.

The foregoing warranty is made in lieu of any and all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose.

This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials or components, whether the claim is made in contract, tort, strict liability or any other legal theory.

This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder.

## Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name.

**VIZOR Electronic Dry Pipe Accelerator (with Trim)**

Specify: VIZOR Electronic Dry Pipe Accelerator for use with the 4 or 6 inch TYCO Model DPV-1 Dry Pipe Valve trim, P/N 52-312-3-001.

Required batteries are ordered separately; see below.

**VIZOR Electronic Dry Pipe Accelerator (without Trim)**

Specify: VIZOR Electronic Dry Pipe Accelerator, P/N 52-312-3-000.

Required batteries are ordered separately; see below.

**Separately Ordered Parts**

- For the 24-Hour Battery, specify a quantity of 2 and P/N:  
24-Hour Battery,  
12 V, 1.3 AH. . . . . P/N 2653
- For the 90-Hour Battery, specify a quantity of 2, battery size, fuse, fuse holder, and cabinet with the P/Ns below.  
90-Hour Battery  
12 V, 5 AH . . . . . P/N 2654  
Fuse, 5 A . . . . . P/N 2657  
Fuse Holder. . . . . P/N 2655  
90-Hour Battery Cabinet,  
8" x 4" x 8"  
(203 mm x 102 mm  
x 203 mm) . . . . . P/N 52-312-3-002