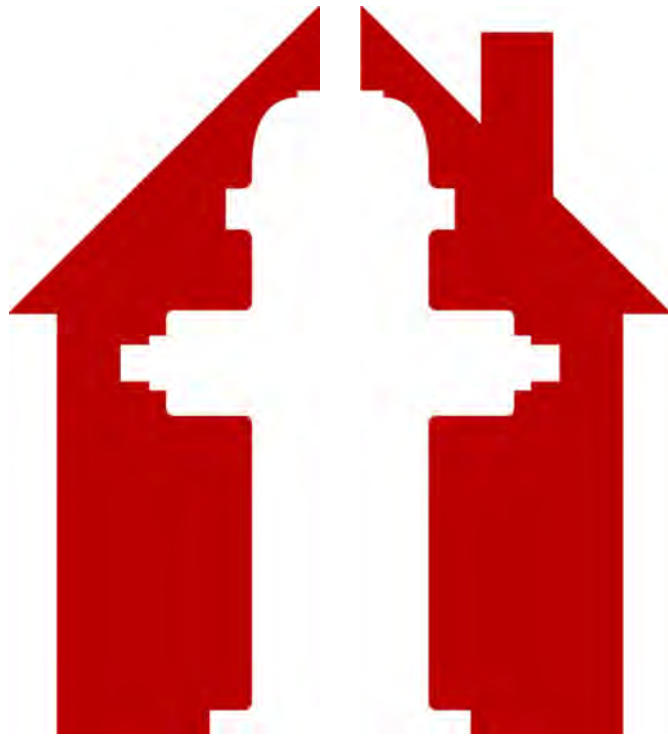


O&M INSTRUCTION MANUAL



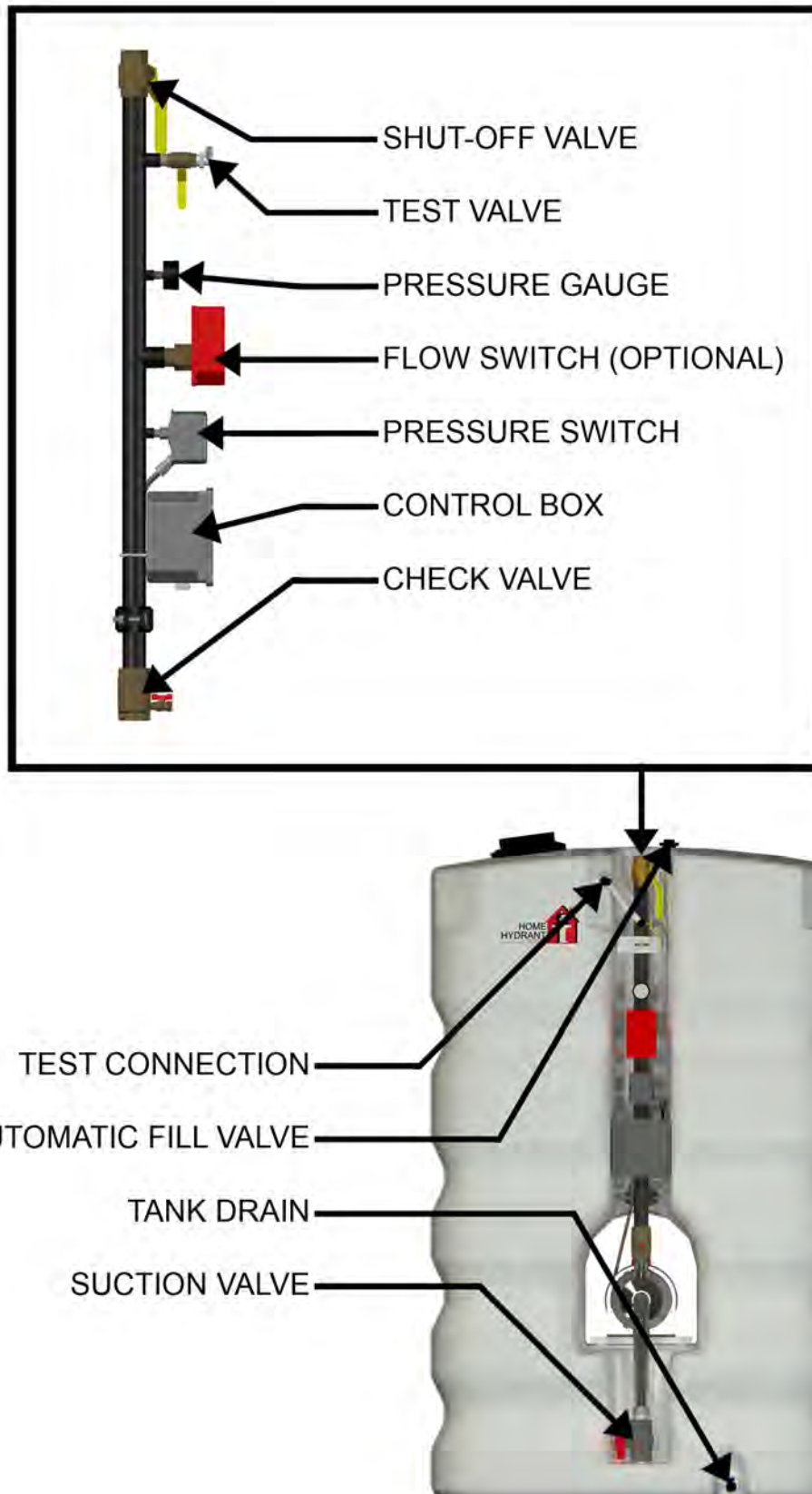
HOME HYDRANT[®]
TALCO FIRE SYSTEMS

U.S. PATENTS #8,678,032 & #8,905,069

Table of Contents

Overview of the Home Hydrant.....	I
Safety Information.....	II
Moving the Home Hydrant.....	III
 Section 1 – Preparation.....	 1
 Section 2 – Installation.....	 2
2.1 – Proximity to Existing Walls	
2.2 – Float Valve Installation	
2.3 – Discharge Piping	
2.4 – Overflow	
2.5 – Tank Fill	
2.6 – Control Box Preparation	
2.7 – System Wiring Instructions	
 Section 3 – Start-Up Procedures.....	 4
3.1 – Air Bleed Procedure	
3.2 – Test Valve	
3.3 – Discharge Valve	
3.4 – Energize the System	
3.5 – Initial Start in “Hand”	
3.6 – Transition to “Auto”	
3.7 – Charging the Sprinklers and Finishing the Start-Up	
 Section 4 - Testing and Additional Information.....	 5
4.1 – Testing Interval	
4.2 – Testing the System	
4.3 – Testing Continued and Return to Normal Operation	
Adjustable Run Timer Operation and Adjustment (Factory Set)	
 Section 5 – Troubleshooting.....	 6
5.1 – Pump Won’t Start	
5.2 – Pump Makes Churn Pressure but Won’t Shut Off	
5.3 – Pump Runs but the Pressure is Too Low/ The Pump Doesn’t Shut Off	
5.4 – Pump Make “Gravelly” or “Grumbling” Noise.	
5.5 – Suction Pipe is Leaking	
5.6 – Tank is Leaking	
5.7 – Pump is “Broken”	
Pressure Switch Adjustment (Factory Set)	
 Flow Switch Manufacturer Information.....	 IV
Flow Switch Wiring Diagram and Important Information.....	V
Home Hydrant Wiring Diagram.....	VI
Warranty Information.....	VII

OVERALL VIEW OF HOME HYDRANT



IMPORTANT SAFETY INFORMATION

THIS MANUAL IS INTENDED TO ASSIST IN THE INSTALLATION AND OPERATION OF THIS UNIT AND MUST BE KEPT WITH THE UNIT.

UNIT NOT DESIGNED FOR USE WITH HAZARDOUS LIQUIDS OR FLAMMABLE GASES. THESE CAN CAUSE FIRE, BURNS, DAMAGE, OR FATALITIES.

To avoid serious or fatal injury, or major property damage, read and follow all safety instructions in this manual and on the product.

The following **SAFETY SYMBOLS** in the manual or on the product warn of **HAZARDS** that can cause fatality, personal injury, or property damage as described below.



Warns of **ELECTRICAL HAZARDS** that can cause fatality, serious personal injury, or major property damage.



Warns of **NON-ELECTRICAL HAZARDS** that can cause personal injury or property damage.



Warns of common installation mistakes. This symbol may denote both **ELECTRICAL HAZARDS** and **NON-ELECTRICAL HAZARDS**.

Moving the Home Hydrant

Home Hydrants should be maneuvered and pushed into position while standing upright. They may be slid over solid, flat surfaces without damage to the bottom of the tank. Push only on the tank.

Do not, under any circumstances, use the suction or discharge piping to lift, pull, push, secure, or support the unit. This can lead to leaks or serious damage. Piping is not a handle.

When moving the unit over rough or uneven surfaces it is recommended that the unit is carefully and slowly laid on its back, pump and piping facing upwards. Using ratcheting straps, or other similar straps, wrap them around the indentations on each end of the tank. On the four corners at each ratcheting strap pass a rope or strap under the ratcheting strap and tie it in a loop to make a lifting handle. Ensure the ratcheting straps are tight so they do not slip off the tank during the moving operation. Use a pipe or 2x4 passed through the loop to pick unit up to move it.

Unit on its back with ratchet straps and handle loops



Lifting the unit via the handle loops



Lifting the unit via pipe or 2x4 through the handle loops



**Do not store or install the Home Hydrant unprotected outside.
Installing or storing the Home Hydrant outside unprotected will VOID the manufacturer warranty.**

Do not lay the Home Hydrant with the pump and piping facing downward.

Do not attempt to move a Home Hydrant that contains water.

Do not double stack Home Hydrants.

Do not climb or step on the Home Hydrant.

Do not strap or secure the Home Hydrant in a way which may distort, bow, crack, split, cut, or otherwise damage the tank.

PREPARATION

1.1 Inspect unit for damage. Report any and all damage or suspected damage to carrier or distributor immediately. Contact Talco for additional assistance.



1.2 Do not, under any circumstances, use the suction or discharge piping to lift, pull, push, secure, or support the unit or other objects. This can lead to leaks or serious damage. Piping is not a handle, hanger, ladder, or step.



1.3 Electrical supply must be a separate branch circuit with fuses or circuit breakers, wire sizes, etc. per national and local electrical codes. Adhere to all applicable laws, standards, and codes when wiring. Installation by a licensed electrical contractor is recommended. The Home Hydrant is 230V 1PH only. **The pump cannot be safely energized before all installation steps have been completed. Damage will result if a pump is run dry.**

1.4 The TALCO Home Hydrant must be installed in such a manner that the tank is readily accessible for regular maintenance or replacement in case of tank failure. **Do not install the unit in a manner that requires removal of any wall or portion of the structure.**

1.4.1 TALCO FIRE SYSTEMS will not be held liable for any cost that may incur due to removal or replacement of walls, doors, etc. in order to replace the tank or any equipment that may require service or replacement, or fail while in service due to improper installation; including, but not limited to, installation in an unprotected area.



1.5 Units shall be installed in a location that protects them from direct sunlight, inclement weather in general, and freezing temperatures in particular. Installation in a secured room is strongly recommended to prevent vandalism or tampering with control settings. Not following the guidelines above may cause the unit to malfunction or fail prematurely.



1.5.1 Home Hydrant systems are not designed for unprotected outdoor installation or storage.



1.6 It is imperative that the surface the Home Hydrant is installed on is capable of supporting the weight of the unit when full of water, and is level and solid in nature. Do not install the unit on gravel, dirt, grass, or other substrates which may shift or contain materials which may puncture the tank.

1.6.1 Fresh water weighs approximately 8.34 pounds per gallon. Use caution when deciding where to place a Home Hydrant. **Never attempt to move a unit that is full of water.**

INSTALLATION



2.1 To prevent structural water damage place the Home Hydrant into the desired position on a drain pan that is plumbed to a drain or on a concrete floor (Garage or Basement). TALCO FIRE IS NOT LIABLE FOR ANY DAMAGE DUE TO A LEAKING SYSTEM OR INSTALATION! Do not use the piping as a handle. Do not place it directly against a wall; leave a gap of approximately 6 inches on all sides if possible. **The front and top must be accessible for use and service.**

2.2 Install the Float Valve (if required) and connect the incoming water piping. **The bulkhead outer threads are left-handed (counter-clockwise to tighten). The bulkhead inner threads are right-handed (clock-wise to tighten). The inner threads are 3/4" Female NPT.**

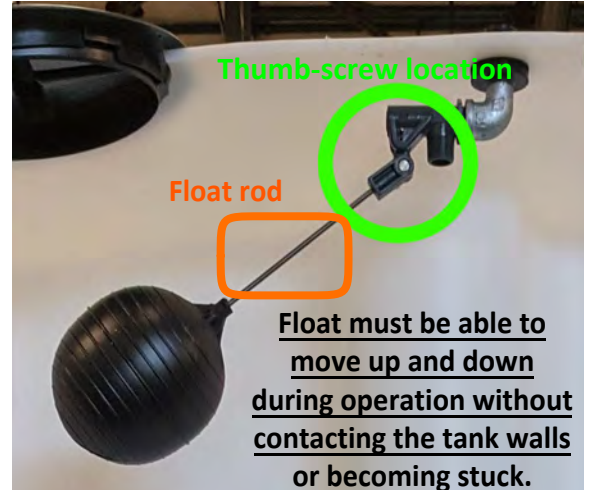


2.2.1 Do not over-tighten the incoming water piping, damage may occur; the Float Valve bulkhead is plastic; Use caution.



2.2.3 Hold the Float Valve steady during installation of the water piping so that the float assembly does not spin inside the tank.

2.2.3 The Float Valve level may need to be adjusted upon installation. For small adjustments the float rod may be carefully bent. For large adjustments the thumb-screw on the valve may be loosened, the valve position adjusted, and the screw re-tightened.



2.2.4 If allowed by local code, install a disconnecting means and shut-off valve in the fill piping above the Float Valve. **A shut-off valve is strongly recommended.**



2.3 Connect the 1-1/4" discharge piping to the sprinkler system. All connecting piping must be supported independently of the Home Hydrant and must be naturally aligned. **If allowed by local code, install an isolation valve and disconnecting means (such as a union) above the Home Hydrant piping. A disconnecting means is strongly recommended.**



2.3.1 Do not force pipe connections into place. Continuous tension on piping will result in leaks or serious damage.



2.3.2 Do not install a check valve in the discharge plumbing. The unit is already equipped with a check valve above the pump. Duplication will cause poor operation or damage.



2.3.3 Always support Home Hydrant fittings with a "backup" wrench during installation. Do not rely on thread sealant alone to prevent rotation of piping or valves.

2.4 Pipe the 1" overflow fitting to a suitable drain. It is recommended that this drain be easily visible in order for an overflow situation to be noticed quickly.

START-UP PROCEDURES

3.1 Open the pump volute air bleed valve located on the discharge check valve (1). This will allow any air in the pump case to escape and prime the pump (Suction valve has to be open). Close valve when the air has cleared and water comes out.

3.2 Now open the test valve at the top of the manifold (2) to allow all air to clear from the discharge manifold. Close the test valve once all the air has cleared.



The pump will not operate properly until all air has been removed from the pump casing (volute).

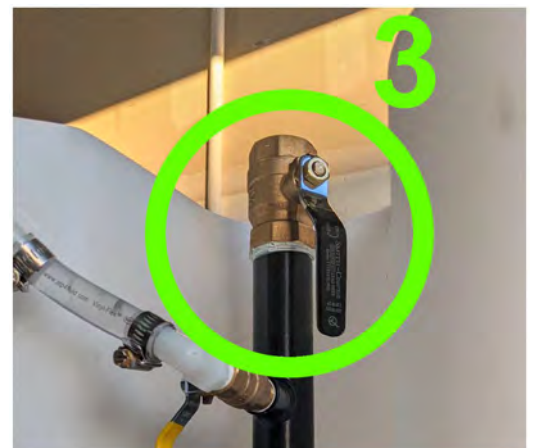
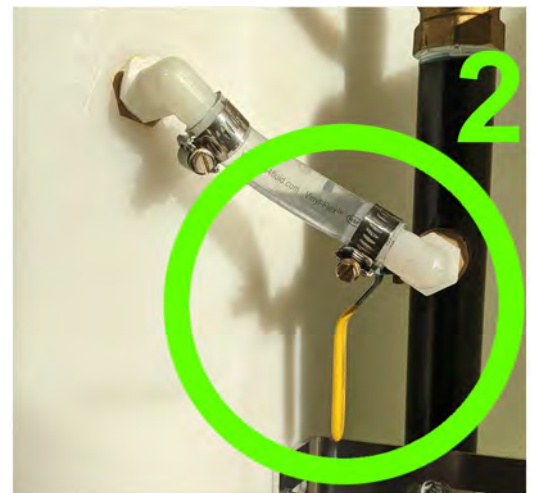
3.3 Open the discharge ball valve at the very top of the discharge manifold and allow water to fill the top pipe section (3). Close the discharge ball valve.

3.4 Verify that the pump toggle switch is in the "OFF" position and energize the pump by turning on the appropriate breaker in the house electrical panel.

3.5 Flip the toggle switch to "HAND". Observe the discharge pressure gauge. The pump should start immediately and build pressure. If the pump fails to quickly build pressure, makes excessive noise, or vibrates turn it off immediately and see the "TROUBLESHOOTING" section for help.

3.6 If the pump does build pressure quickly, flip the toggle switch from "HAND" to "AUTO" and let the pump run. If the pump will not run in "AUTO" bleed pressure from the test valve to start the pump, then fully close the test valve. If the pump still will not run in "AUTO" see the "TROUBLESHOOTING" section for help.

3.7 Once the pump starts in "AUTO" allow it to run until the minimum-run timer expires (factory set at approximately 3 minutes) and the pump cycles off. Now slowly open the discharge ball valve allowing the pump to slowly fill the system. Once the system is charged to the maximum pressure noted earlier and the pump cycles off, fully open the valve. **The system is now ready for automatic operation.**



TESTING AND ADDITIONAL INFORMATION

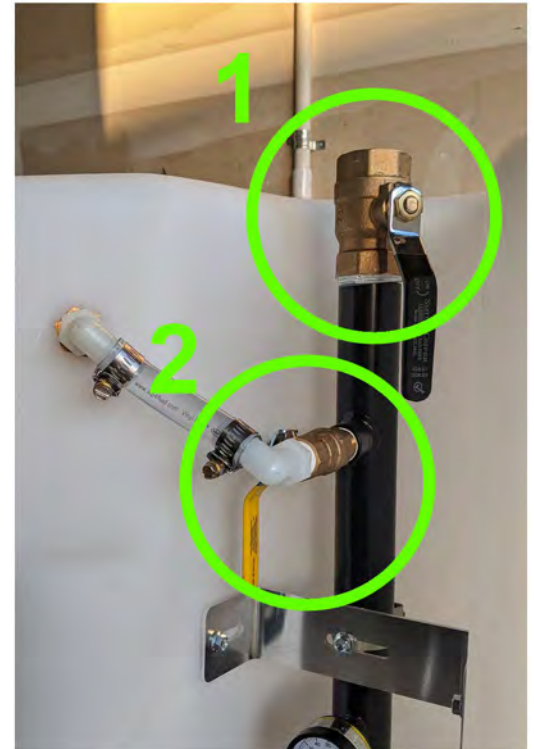
4.1 Initial testing is required to verify proper operation. Monthly (at a minimum) testing is required to ensure the ongoing reliability of the pumping unit. Testing can be performed at any time.

4.2 Close the system discharge valve (1) to isolate the water tank from the sprinkler system. Open the system test valve (2). The pump should start. Allow the pump to run with the valve open for at least 1 minute*.

* During this run time with the valve open the Potter Flow Switch (if installed) should trigger after a set interval.

4.3 Close system test valve (2). The pump will continue to run until the minimum run timer elapses, and then it will shut off. Re-open the discharge valve* (1) and your system is now ready for automatic operation.

* The pump may run again when the discharge valve (1) is re-opened after testing, depending on the pressure in the sprinkler system. This is normal. Monitor the unit while it runs and ensure it shuts off after the run timer elapses. Always leave the discharge valve (1) open during normal operation.



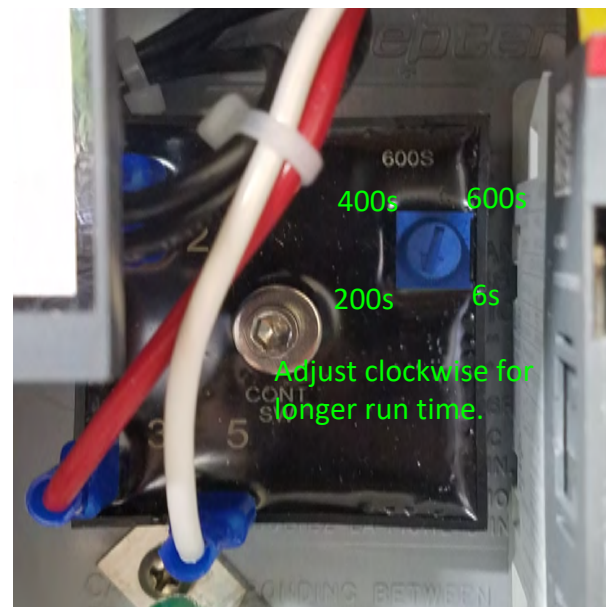
ADJUSTABLE RUN TIMER

The control box timer is factory set at approximately 3 minutes. This is a good general setting for the majority of installations. We do not recommend changing this setting without first contacting Talco.

The timer works as a "delay-on-break" system, referencing the pressure switch opening and then adding in an adjustable delay before shutoff.

Use caution when setting the timer. A pump that runs for a prolonged period without discharging water is subject to overheating and damage, while a pump with too short of a run time may cycle on and off repeatedly when there is low demand.

It is acceptable to carefully adjust the timer while the system is running, but use extreme caution. Do not touch any wires, contacts, or other components when adjusting the timer. Use of a thin, insulated screwdriver is advised.



Adjust clockwise for a longer run time and counterclockwise for shorter. The minimum is 6 seconds. The maximum is 10 minutes.

TROUBLESHOOTING

5.1 Pump won't start.

5.1.1 Tripped breaker. Cycle the breaker if necessary. Ensure the breaker is sized correctly and is of the "slow trip" type.

5.1.2 System pressure is too high. Open the test valve and drop the pressure.

5.1.3 Pressure switch settings are incorrect. Pressure switch adjustment is needed.

5.1.4 Incorrect incoming power. Check to make sure the unit is wired 230volt 1phase.

5.1.5 Pump is turned off inside control box. The pump will only function in "Auto" or "Hand".

5.2 Pump makes churn pressure but won't shut off.

5.2.1 Pressure switch settings are incorrect. Cut-out is set too high.

5.2.2 System is incorrectly wired. Ensure that the incoming power is wired per this manual.

5.2.3 Timer setting is too high. See previous page for timer information. Adjust as necessary.

5.3 Pump runs but the pressure is too low/the pump doesn't shut off.

5.3.1 Check for air in the pump. Open the bleed valve and test valve to purge any air.

5.3.2 Incorrect incoming power. Check to make sure the pump is wired 230volt 1phase.

5.3.3 Ensure the pump has adequate water. Ensure the suction valve is open and there is sufficient water in the tank.

5.4 Pump makes "gravelly" or "grumbling" noise.

5.4.1 Check for air in the pump. Open the bleed valve and test valve to purge any air.

5.4.2 Ensure the pump has adequate water. Ensure the suction valve is open and there is sufficient water in the tank.

5.4.3 Debris in the pump casing. Pump removal and inspection is advised.

5.4.4 Check for leaks in the suction piping. Ensure the pump is not pulling in air through a leak.

5.5 Suction pipe is leaking.

5.5.1 Flexible piping seals are damaged or displaced. Close the Suction Valve and remove the flexible piping. Examine the seal placement and condition. If the seals appear cut or damaged try removing them and flipping them over.

5.5.2 Flex piping connections are too loose or too tight. Tighten the end-nuts only 1/3 to 2/3 turn past when the gasket seats. Over-tightening can cause seal damage or displacement.



TROUBLESHOOTING CONTINUED

5.6 Tank is leaking

5.6.1 All Talco Home Hydrant tanks are pressure tested prior to sale. If a tank is leaking the damage may have been sustained during shipping or installation. **Home Hydrant tanks are polyethylene and can be carefully repaired in the field.** Contact Talco for more information on repair procedures.



5.6.2 Do not put a leaking tank into service.

5.7 Pump is "broken"



5.7.1 Stop! Never assume the pump is at fault. Replacement of a pump is the absolute last resort. Contact Talco for additional assistance before attempting to replace a pump. Most "broken" pumps are maladjusted pressure switches or incorrect wiring.

5.7.2 The Home Hydrant is designed to make pump removal as easy as possible, should the need arise.

PRESSURE SWITCH ADJUSTMENT

The pressure switch has been factory wired and adjusted. In the unlikely event adjustment of the pressure switch is required please note the following:

- A) The large spring affects both the cut-in and cut-out points equally. Turn the adjusting nut clockwise to equally raise the pressure for both.

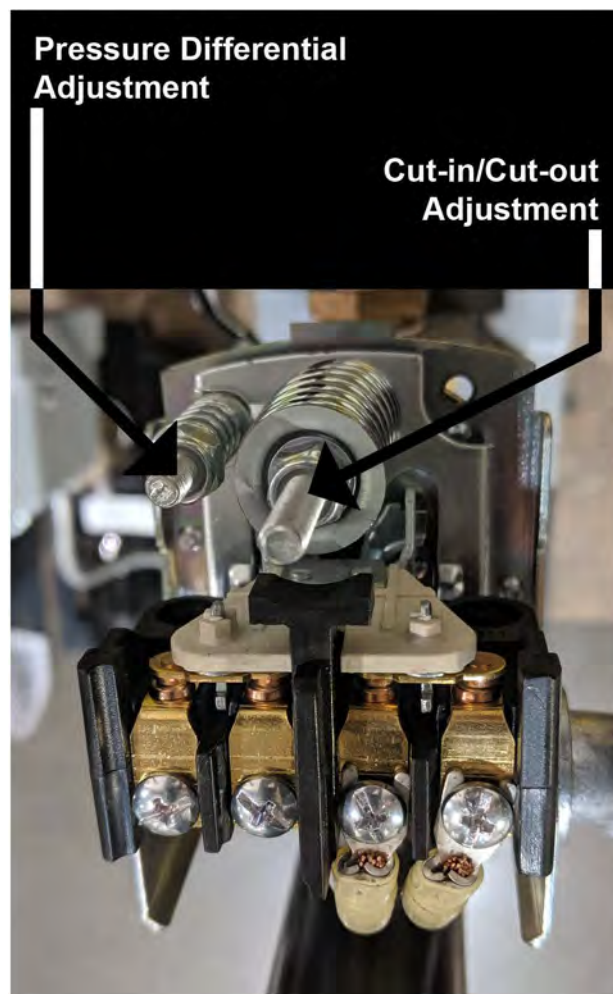
Note: If the cut-out pressure has been raised above the maximum pressure of the pump the system will not shut off.

- B) The small spring controls the differential between cut-in and cut-out pressure. This is factory set for a 15PSI-20PSI differential. Turn the adjusting nut clockwise to increase the cut-out only.

Note: We do not recommend adjusting the pressure switch without contacting TALCO.



HAZARDOUS VOLTAGE: Disconnect power before working on the motor or the pressure switch.





Stock No. 1144440

⚠ WARNING

Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.

Shock hazard. Disconnect power source before servicing. Serious injury or death could result.

Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

UL, ULC, CSFM Listed and NYMEA Accepted

Service Pressure: Up to 300 PSI (20,7 BAR)

Flow Sensitivity Range for Signal: 4-10 GPM (15-38 LPM) UL

Maximum Surge: 18 FPS (5,5 m/s)

Enclosure: Die-cast, red enamel finish

Cover held in place with tamper resistant screws

Contact Ratings: Two sets of SPDT (Form C)

10.0 Amps at 125/250 VAC

2.0 Amps at 30 VDC Resistive

10mAmps min. at 24 VDC

Conduit Entrances: Two openings provided for 1/2" conduit.

Individual switch compartments suitable for dissimilar voltages.

Usage: Listed plastic, copper and schedule 40 iron pipe.

Fits pipe sizes - 1" (25mm), 1 1/4" (32mm), 1 1/2" (38mm) and 2" (50mm)

Note: 12 paddles are furnished with each unit, one for each pipe size of threaded and sweat TEE, one for 1" (25mm) CPVC, one for 1" (25mm) CPVC (Central), one for 1" threaded Nibco CPVC, and one for 1 1/2" (38mm) threaded (Japan).

Environmental Specifications:

- NEMA-4/IP54 Rated enclosure suitable for indoor or outdoor use with factory installed gasket and die-cast housing when used with appropriate conduit fitting.
- Temperature range: 40° F to 120° F, (4,5° C to 49° C) UL

Service Use:

Automatic Sprinkler

One or two family dwelling

Residential occupancy up to four stories

National Fire Alarm Code

NFPA-13

NFPA-13D

NFPA-13R

NFPA-72

Optional: Cover Tamper Switch Kit, Stock No. 0090148

(See Fig. 7 for terminations)

Replaceable Components: Retard/Switch Assembly, stock no. 1029030

The Model VSR-S is a vane type waterflow switch for use on wet sprinkler systems that use 1" (25mm), 1 1/4" (32mm), 1 1/2" (38mm) or 2" (50mm) pipe size. The unit may also be used as a sectional waterflow detector on large systems.

The unit contains two single pole double throw snap action switches and an adjustable, instantly recycling pneumatic retard. The switches are actuated when a flow of 10 gallons per minute (38 LPM) or more occurs downstream of the device. The flow condition must exist for a period of time necessary to overcome the selected retard period.

Enclosure

The VSR-S switches and retard device are enclosed in a general purpose, die-cast housing. The cover is held in place with two tamper resistant screws which require a special key for removal. A field installable cover tamper switch is available as an option which may be used to indicate unauthorized removal of the cover. See bulletin number 5401103 for installation instructions of this switch.

Installation

These devices may be mounted in horizontal or vertical pipe. On horizontal pipe they should be installed on the top side of the pipe where they will be accessible. The units should not be installed within 6" (15cm) of a valve, drain or fitting which changes the direction of the waterflow. Select the proper paddle for the pipe size and type of TEE used see Fig. 1 for instructions on changing paddle. The unit has a 1" NPT bushing for threading into a non-corrosive TEE. See Fig. 2 for proper TEE size, type and installation. Use no more than three wraps of teflon tape.

Screw the device into the TEE fitting as shown in Fig. 2. Care must be taken to properly orient the device for the direction of waterflow.

The vane must not rub the inside of the TEE or bind in any way. The stem should move freely when operated by hand.

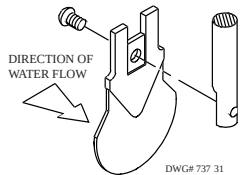
The device can also be used in copper or plastic pipe installations with the proper adapters so that the specified TEE fitting may be installed on the pipe run.

Note: Do not leave cover off for an extended period of time.

Fig. 1

Retard Adjustment

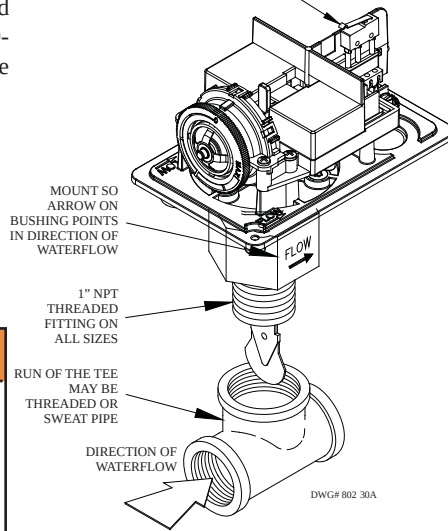
The time delay is factory set at 30 ± 10 seconds. The delay can be adjusted by rotating the retard adjustment knob from 0 to the max setting (60-90 seconds). The time delay should be set at the minimum required to prevent false alarms.



WARNING

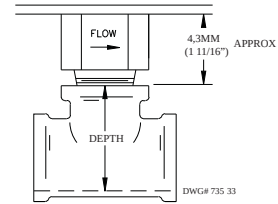
There are 12 paddles furnished with each unit. One for each size of threaded, sweat or plastic TEE as described in Fig. 2. These paddles have raised lettering that shows the pipe size and type of TEE that they are to be used with. The proper paddle must be used. The paddle must be properly attached (see drawing) and the screw that holds the paddle must be securely tightened.

DO NOT LEAVE COVER OFF FOR EXTENDED PERIOD OF TIME
COVER TAMPER SWITCH



Shown with optional Cover Tamper Switch Kit

Fig. 2



Screw the device into the tee fitting as shown. Care must be taken to properly orient the device for the direction of waterflow. On sweat tees, no threaded bushings, inserts, or adapters are permitted, unless they comply with the dimensions listed in the chart below.

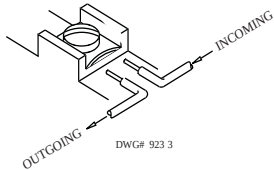
Important - The depth to the inside bottom of the tee should have the following dimensions:

Approximate Depth Requirement			
Tee Size	Threaded	Sweat	CPVC
1" x 1" x 1"	2 1/16"	1 3/4"	2 7/16"
1 1/4" x 1 1/4" x 1"	2 7/16"	2 7/16"	N/A
1 1/2" x 1 1/2" x 1"	2 11/16"	2 1/4"	N/A
2" x 2" x 1"	3 3/16"	2 3/4"	N/A

WARNING

Do not use more than three wraps of teflon tape

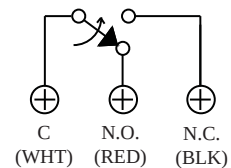
Fig. 3 Switch Terminal Connections Clamping Plate Terminal



WARNING

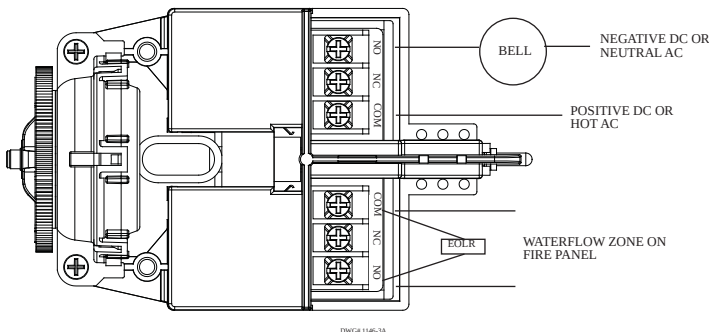
An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire become dislodged from under the terminal. Failure to sever the wire may render the device inoperable risking severe property damage and loss of life.

Fig. 7 Cover Tamper Switch Wiring
(Shown with cover in place)



DWG# 8810018 2

Fig. 4 Typical Electrical Connections



Notes:

1. The Model VSR-S has two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other is used to operate a local audible or visual annunciator.
2. For supervised circuits see "Switch Terminal Connections" drawing and caution note (Fig. 3).

Fig. 5

To remove knockouts:
Place screwdriver at edge of knockouts, not in the center.

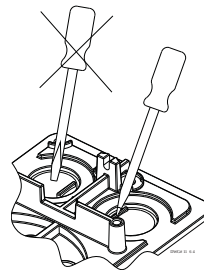
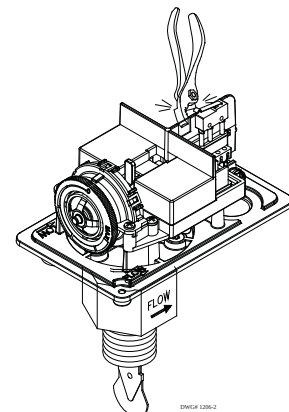


Fig. 6

Break out thin section of cover when wiring both switches from one conduit entrance.



Testing

The frequency of inspection and testing for the Model VSR-S and its associated protective monitoring system should be in accordance with applicable NFPA Codes and Standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently.)

An inspector's test valve (usually located at the end of the most remote branch line) should always be used for test purposes. If there are no provisions for testing the operation of the flow detection device on the system, application of the VSR-S is not recommended or advisable.

A minimum flow of 10 gpm (38 Lpm) is required to activate this device.

NOTICE Please advise the person responsible for testing of the fire protection system that this system must be tested in accordance with the testing instructions.

Maintenance

Inspect detectors monthly for leaks. If leaks are found, replace the detector. The VSR-S waterflow switch should provide years of trouble-free service. The retard and switch assembly are easily field replaceable. In the unlikely event that either component does not perform properly, please order replacement retard switch assembly stock #1029030. There is no maintenance required, only periodic testing and inspection.

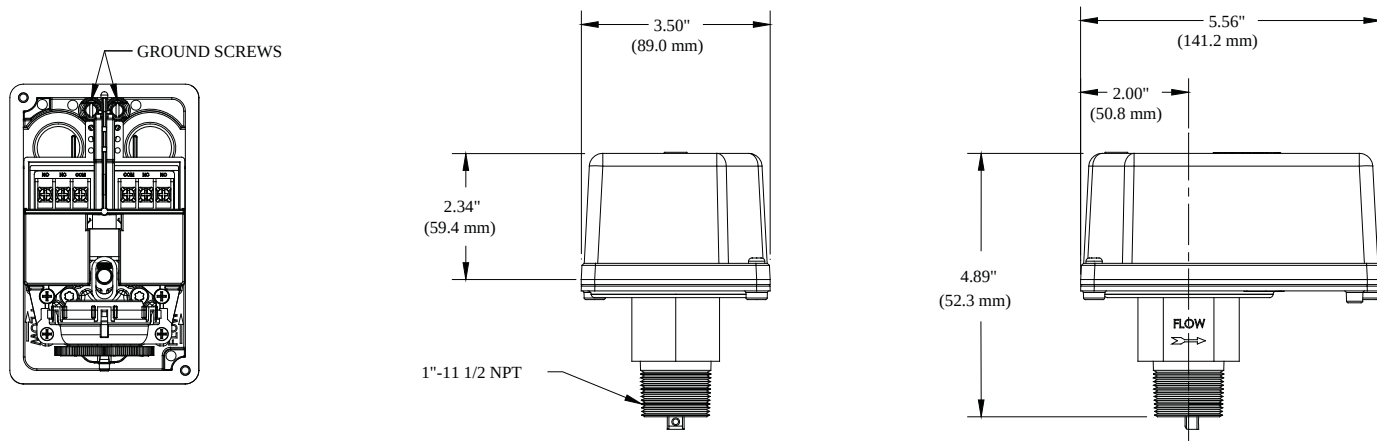
Removal

- To prevent accidental water damage, all control valves should be shut tight and the system completely drained before waterflow detectors are removed or replaced.
- Turn off electrical power to the detector, then disconnect wiring.
- Use a wrench on the flats of the bushing. Turn the switch counterclockwise to disengage the pipe threads.
- Gently lift with your fingers, roll the vane so it will fit through the hole while continuing to lift the waterflow detector.
- Lift detector clear of pipe.

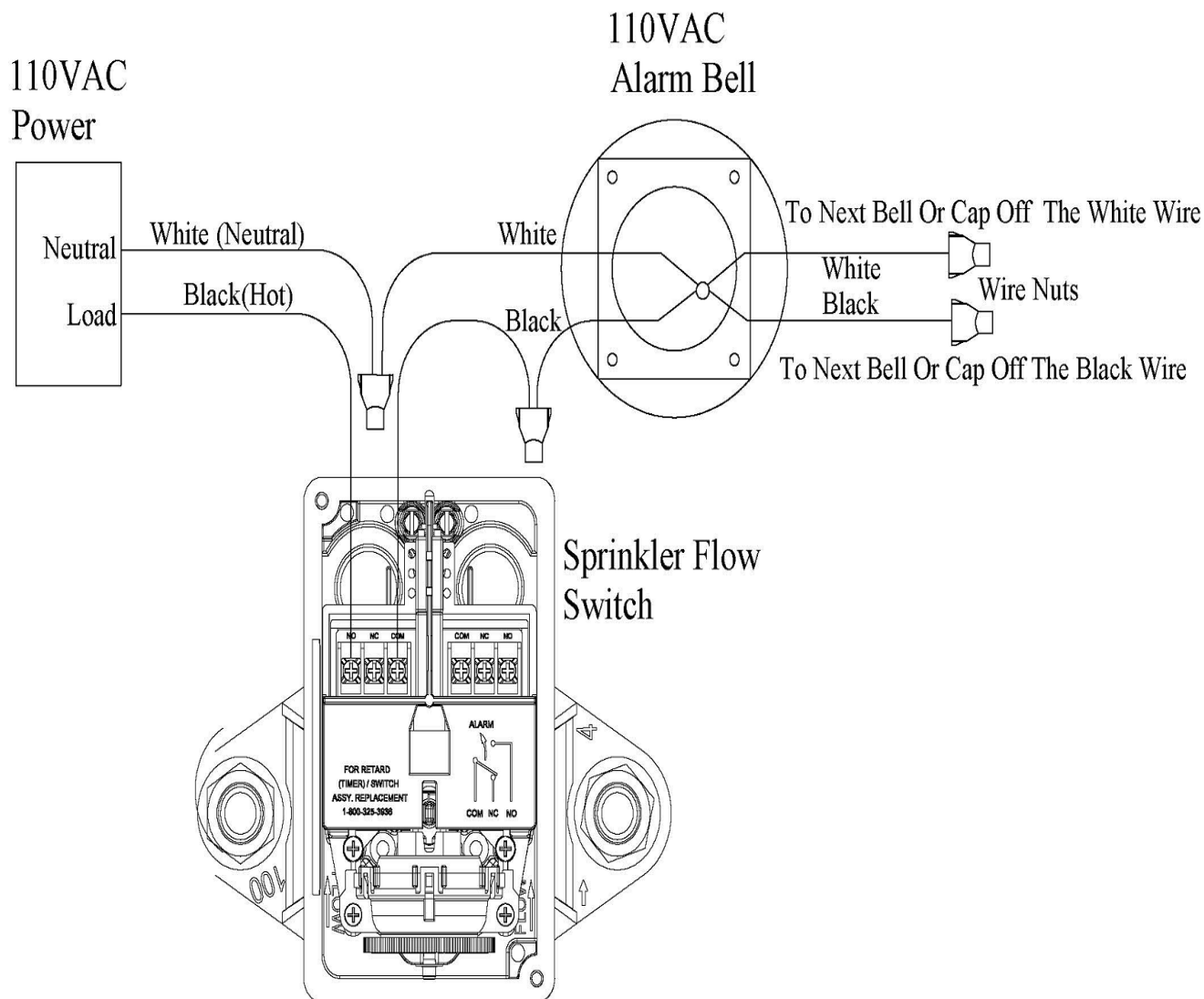
CAUTION

Waterflow switches that are monitoring wet pipe sprinkler systems shall not be used as the sole initiating device to discharge AFFF, deluge, or chemical suppression systems. Waterflow switches used for this application may result in unintended discharges caused by surges, trapped air, or short retard times.

Mounting Dimensions



DWG# 1206 5



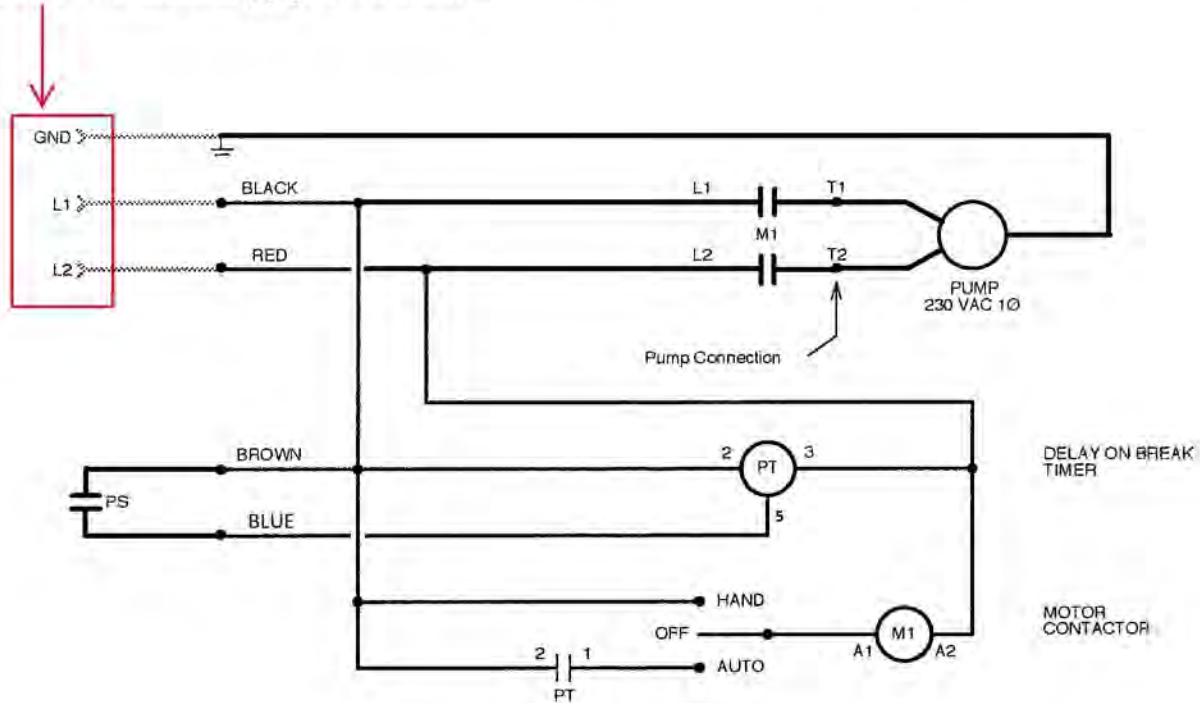
The Potter Flow Switch must be on a separate circuit from the Home Hydrant; It is for alarm use only and is not required for pump operation.

Do NOT "cross-wire" the Flow Switch and Control Box in any way, they cannot share conductors.

If you install your own Potter Flow Switch you should use the paddle labeled 1" CPVC Central for proper operation. Alarm should activate during normal testing procedure on page 5.

Home Hydrant Wiring Diagram

230V, 1-Phase supply w/ Ground



Connect incoming power (230V 1PH ONLY) to the pre-stripped Red and Black wires only.

Connect a dedicated ground to the existing green ground wires in the controller using either the attached lug or other approved method.

Do NOT connect a neutral wire.

Do NOT alter the Pressure Switch wiring.

Do NOT alter any factory wiring.

Do NOT attempt to connect any other device to the Control Panel.

TALCO FIRE SYSTEMS

Limited Warranty

All goods are warranted to be free of defects in material and workmanship for a period of one year from start-up or (18) months from the date of shipment, whichever comes first. Except as specifically indicated, TALCO makes no warranties, expressed or implied, oral or written, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

THIS WARRANTY IS SPECIFICALLY SUBJECT TO THE FOLLOWING:

1. The limited warranty is limited to replacement or repair of defective materials and workmanship at the discretion of TALCO.
2. Equipment sold, but not manufactured by TALCO, is subject to the manufacturer's warranty only. TALCO makes no warranties, either expressed or implied, for goods manufactured by others.
3. The limited warranty is conditioned on the purchaser giving TALCO notice within five days of discovery of any alleged defect. Notice should be directed to TALCO FIRE SYSTEMS, by mail: 6040 NE 112th Ave, Portland OR, 97220 or by email: support@talcofire.com.
4. The limited warranty shall be considered null and void if any product or part of the packaged system has been repaired or altered in any way by others without prior authorization from TALCO. Fitting leaks and electrical damage are considered the responsibility of the installing contractor.
5. TALCO shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of any goods subject to this limited warranty, nor shall TALCO be liable for any damages or charges for labor or expense in making repairs or adjustments to the goods. TALCO shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data or services.
6. This warranty shall not apply to any goods subject to misuse due to common negligence or accident, nor to any goods manufactured by TALCO which are not operated in accordance with TALCO printed instructions.
7. The liability of TALCO is limited to material replacements FOB Portland, Oregon.
8. All shipments are FOB TALCO dock and it will be the responsibility of the purchaser to check the goods when they are received and report to the Freight Company any damage that might have occurred.