

# Pure Flow® 1000

## 15-Minute Emergency Eyewash Station

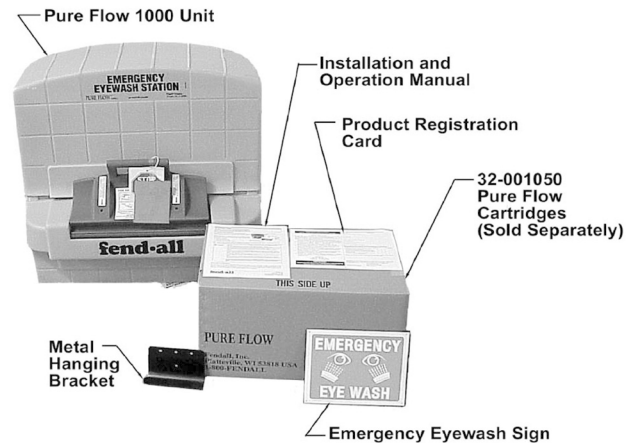
### Model #32-001000 Installation and Operation Manual

## Unpack and Inspect

The Pure Flow 1000 Eyewash Station and the Pure Flow Cartridges (sold separately) are shipped in two separate containers. Before beginning installation, be sure you have both containers.

Upon receipt, check the shipping boxes for any damage. If either carton is damaged, notify the carrier. If there is no damage, unpack the Pure Flow 1000 Station. The Pure Flow 1000 is shipped fully assembled and includes:

1. Pure Flow 1000 Station
2. Metal Hanging Bracket
3. Emergency Eyewash Sign
4. Installation and Operation Manual



Open the Pure Flow Cartridge carton (#32-001050) and examine for damage. Do not unpack cartridges until the Pure Flow 1000 is mounted and you are ready to install the cartridges.



#### **WARNING:**

- The Pure Flow 1000 Emergency Eyewash Station is not for outside use. (See "Choose A Location," page 1.)
- The unit must be level for proper operation. (See "Choose a Location," page 1.)
- The area under the Pure Flow 1000 must be kept clear so the reservoir can move down during use and to provide clearance for draining the reservoir after use. (See "Choose a Location," page 1.)
- The left-hand and right-hand nozzles must be touching in the middle. (See "Install the Cartridges," page 2.)
- Employees must be instructed in the use of Emergency Eyewash Stations. (See "Operation," page 3.)
- This Emergency Eyewash unit is intended for the emergency use of victims of eye contamination until medical treatment is obtained. In all cases, the victim should seek medical attention immediately after flushing. (See "Operation," page 3.)
- An individual or department must be assigned the task of checking all self-contained Eyewash units on a weekly basis. (See "Inspection and Maintenance," page 4.)
- Use of an expired cartridge may result in serious personal injury. (See "Inspection and Maintenance," page 4.)
- When inspecting the Pure Flow 1000, do not lift the activating door as this will start the fluid flow. Fluid flow from the Pure Flow Cartridges cannot be stopped once flow is started. (See "Inspection and Maintenance," page 4.)

**FAILURE TO FOLLOW AND COMPLY WITH ALL INSTRUCTIONS AND CAUTIONS STATED IN THIS MANUAL MAY RESULT IN SERIOUS PERSONAL INJURY, SERIOUS ILLNESS, BLINDNESS OR DEATH.**

## Choose a Location

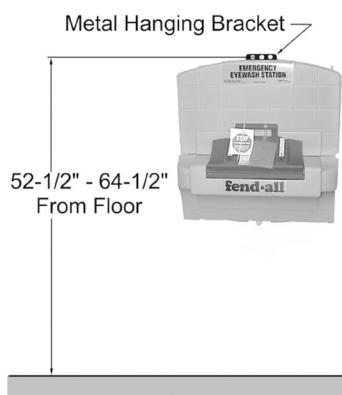
The Pure Flow 1000 Emergency Eyewash Station is not for outside use. (See "Warning" on page 1.) Installation of the Eyewash Station in an outside location may prevent the unit from functioning properly in an emergency situation. The Pure Flow 1000 Emergency Eyewash Station must be installed in an easily accessible location in the immediate area of hazard to an employee, according to ANSI Standard Z358.1-1998 requirements.

# fend·all

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Part # 32-005520 Rev.B

### The ANSI Standard Z358.1-1998 requires that:

1. The unit shall be positioned with the nozzle(s) not less than 83.8 cm (33 in.) and no greater than 114.3 cm (45 in.) from the floor and 15.3 cm (6 in.) minimum from the wall or nearest obstruction.
2. Eye wash units shall be in accessible locations that require no more than 10 seconds to reach. The eye wash shall be located on the same level as the hazard and the path of travel shall be free of obstructions that may inhibit the immediate use of the equipment. For a strong acid or a strong caustic, the eye wash should be immediately adjacent to the hazard.
3. Each eye wash location shall be identified with a highly visible sign positioned so the sign shall be visible within the area served by the eye wash. The area around the eye wash shall be well lighted.



The Pure Flow 1000 must be mounted on a wall or other suitable vertical surface. Mount the Pure Flow 1000 on a vertical surface using the metal hanging bracket. The Pure Flow Universal Cart, #32-001060, available as an accessory from Fendall, may also be used to mount the unit. The unit must be level for proper operation. (See “Warning” on page 1.)

At least two (2) suitable fasteners (not included) are required for the hanging bracket. Select fasteners that provide support for the unit, the solution cartridges (weight of the unit with two cartridges is 100 pounds or 45 kg), plus the force of an individual leaning on the unit when in use. Fastener selection should also be determined by the type of mounting surface at the eyewash site.

In order to have the nozzles positioned as required by ANSI Z358.1, and to provide the required clearance under the unit, position the mounting bracket by placing the top of the bracket at a height of 52-1/2” - 64-1/2” (133 cm - 164 cm) from the floor.

The area under the Pure Flow 1000 must be kept clear so the reservoir can move down during use and to provide clearance for draining the reservoir after use. (See “Warning,” page 1.)

## Eyesaline® Cartridges, product #32-001050

Self-contained units provide options for the type of flushing fluids used in the unit. A buffered isotonic solution preserved with a suitable antibacterial agent may be less irritating to the eye when used for a 15-minute flush. Tap water may contain potentially harmful bacteria, chemicals and other irritating contaminants, including rust and chlorine, that can further aggravate already injured or compromised eyes. Research provides solid documentation that flushing with ordinary tap water for extended periods of time, such as the 15 minutes recommended by the ANSI Standard, may damage corneal cells. Fluid cartridges for the Pure Flow 1000 are filled with ready-to-use Eyesaline.

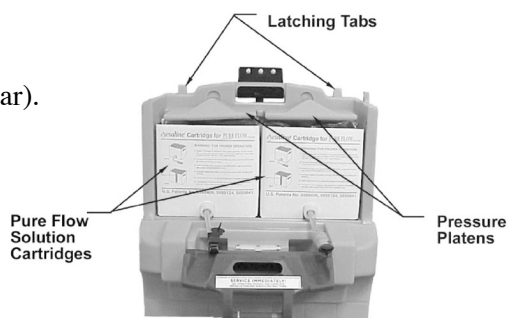
### What is Eyesaline?

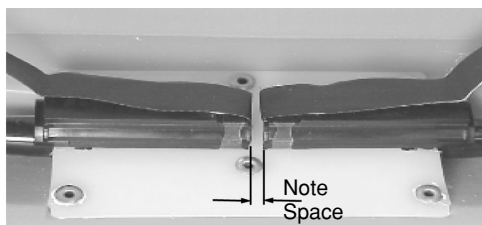
**Eyesaline is a buffered, preserved, saline solution that is carefully formulated to the following criteria:**

1. Buffered to the same pH balance of the human eye (7.4) which is especially important in chemical splashes where the eyes' pH level has been disrupted.
2. Compounded to maintain its pH of 7.4 during all stages of use, including storage.
3. Contains a preservative to inhibit bacterial growth and is purified to eliminate contaminants, organisms and chlorine.

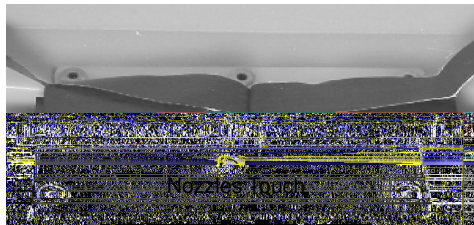
## Install the Cartridges

1. Complete the unit installation as instructed in “**Choose a Location.**”
2. Ensure the drain spigot is in the “**Closed**” position (handle turned to the rear).
3. Remove the Eyewash station cover by lifting straight up.
4. Open the activating door.
5. Raise the reservoir to the “**Up**” position and latch on the housing.  
The two (2) platens will also be in the “**Up**” position.
6. Place the two (2) Pure Flow cartridges on the shelf. Ensure the nozzle assembly is to the front. Note: Each cartridge weighs 33 lbs. (15 kg). Two (2) Pure Flow cartridges must be used for the unit to function properly.

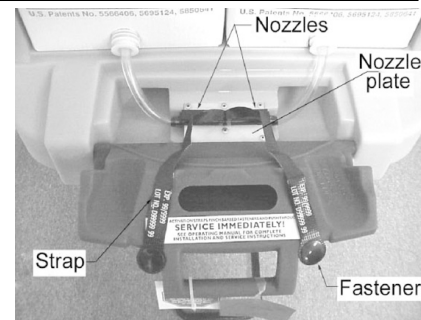




Incorrect Installation



Correct Installation



7. **Carefully** remove the rubber band around the activating strap and nozzle.
8. Extend the activating strap to the side. **Do not pull** on the strap.
9. Slide the right-hand nozzle into the right-hand side of the white nozzle plate until the nozzle snaps into place.
10. Slide the left-hand nozzle into the left-hand side of the white nozzle plate until the nozzle snaps into place. **The nozzles must touch in the middle.** (See “Warning” page 1.)
11. Lay the black nozzle activating straps **out over the top of the activation door (see above)**, with the expiration date and batch number visible. Make sure the straps are not twisted or crossed. **Do not** run straps around the sides of the door, installing the straps in this manner may cause the unit to malfunction when activated. Be sure they are not twisted or crossed.
12. Close the activation door.
13. Position the two (2) nozzle activating straps **over the top of the activation door and down the raised area on either side of the door handle so that the strap is covering the label. Do not pull or twist the nozzle activation straps.**
14. Push the body of the plastic fastener into the hole in the door until the body of the fastener is seated securely in the door and the bottom of the flange on the body is flush against the door surface.  
Then push the center pin of the fastener down until the pin snaps into place, and the head of the pin is flush with the head of the fastener body.
15. Pull latch tabs forward to release and the reservoir will drop slightly and platens will rest on the bags. Replace the Eyewash Station cover. Press down on the top of the Eyewash Station cover to ensure it is properly seated on the housing. Attach a lock or inspection tag if desired.
16. The Pure Flow 1000 is ready to use.

## Operation

Employees must be instructed in the use of Emergency Eyewash stations. (See “Warning” page 1.) Studies have shown that obtaining emergency flushing within the first 10 seconds in eye emergencies is critical. It is required that training be provided to employees in each department where eye hazards exist. This training should be scheduled on a regular basis to keep both current and new employees aware of the location of all eyewash devices, as well as to reinforce the importance of obtaining immediate eye washing in emergencies.

1. The sooner the injured person can flush his eyes, the less likelihood there will be of eye damage. Seconds can make the difference in preventing serious eye injury or blindness.
2. All employees must be reminded that this unit is for emergency use only; tampering with this unit or using it for non-emergency purposes may cause the unit to be empty when needed.

In an emergency, the eyes may involuntarily clamp shut and the individual may be experiencing pain, anxiety and disorientation. They may need assistance from other workers in getting to and using the eyewash station.

1. Start the solution flow by pulling the handle on the activating door. This action will expose the eyewash basin and initiate fluid flow .
2. The injured person should then lower his head into the fluid stream.
3. When the eyes are in the streams of solution, use the thumb and forefinger of each hand to open the eyelids. Hold eyelids open until thoroughly flushed. 15 minutes is recommended.
4. **After flushing, seek medical attention immediately.** (See “Warning,” page 1.)
5. Safety and supervisory personnel must be notified that the unit has been used and new cartridges must be installed.



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## Replacing Cartridges after Use

1. Place a suitable container under the drain. **Note: the reservoir will contain 7.5 gallons (28.5 liters) of fluid.** Drain the fluid reservoir by turning the drain spigot to the open (forward) position.
  2. Turn drain spigot to the closed position (straight back) when all solution has been drained from reservoir.
  3. Dispose of solution properly. Solution may be disposed down a regular waste drain.
  4. Raise empty reservoir by lifting from below until the reservoir locks in the “**Up**” position with the two latching tabs engaged on the housing. The pressure platens will also be in the “**Up**” position.
  5. Slide the nozzles out of the slots in the nozzle plate by lifting up slightly on the tubing and gently pulling sideways.
  6. Remove the used cartridges. Dispose of properly. They may be drained and disposed of as regular waste.
  7. Remove the used cartridge activating straps by prying up underneath the head of the center pin of the strap fastener with a flat-headed screwdriver until the center pin pops up and the plastic fastener can be removed from the activating door.
  8. Wipe down the basin and activating door with a damp cloth.
  9. Install new set of cartridges following instructions under “**Install the Cartridges.**”
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## Inspection and Maintenance

1. An individual or department must be assigned the task of checking all self-contained eyewash units on a weekly schedule to ensure the unit is in proper operating condition. (See “Warning” page 1.) Records of these weekly inspections should be kept with the unit.
  2. When inspecting the Pure Flow 1000, do not lift the activating door as this will start solution flow. Solution flow from the Pure Flow 1000 cartridges cannot be stopped once flow is started. (See “Warning” page 1.)
  3. Check the fluid expiration date printed on the nozzle activating strap. If the expiration date is near or past, replace the fluid cartridges. Order product #32-001050.
  4. Use of an expired cartridge may result in serious personal injury. (See “Warning” page 1.)
  5. If the “**Warning, Service Immediately**” notice on the fluid reservoir is visible or the activating door is open, the Pure Flow 1000 requires service immediately. Follow instructions for replacing the fluid cartridges.
  6. Cover should be securely in place. Cover may be removed to check cartridges.
  7. Drain must be in the closed position.
  8. **Area around and under Eyewash must be clear of obstruction and debris.**
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## Replacing Cartridges When Expired

1. **The cartridge solution expiration date is printed on each cartridge activating strap and on the front face of each cartridge.**
  2. **On** or **before** the cartridge expiration date, cartridges **must be replaced** with new Pure Flow 1000 Cartridges.
  3. Remove eyewash station cover.
  4. Carefully cut activating straps.
  5. Open activating door.
  6. Remove the used cartridge activating straps by prying up underneath the head of the center pin of the strap fastener with a flat-headed screwdriver until the center pin pops up and the plastic fastener can be removed from the activating door.
  7. Remove expired cartridges. The cartridges are still full and weigh 33 lbs. (15 kg) each. Dispose of properly. They may be drained and disposed of as regular waste.
  8. Install new set of cartridges following instructions under “**Install the Cartridges**”.
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## Pure Flow 1000 Parts and Accessories

Product	Includes
32-001050	Set of Eyesaline Fluid Cartridges for Pure Flow 1000
32-001060	Universal Cart for Pure Flow 1000
32-001012	Pure Flow Replacement Parts
32-001013	Pure Flow Unit Replacement Cover
32-001051	Wall Bracket for Pure Flow 1000
32-000107	Emergency Eyewash Sign

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