

SPILLDOC®

BD-510

ABS Combination Emergency Shower & Eyewash

With Hand Push Plate & Foot Pedal

Standard:ANSI Z358.1-2014



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Product Concept

Emergency eyewash and shower units are designed to rinse contaminants from the user's eyes, face or body. As such, these units are forms of first aid equipment to be used in the event of an accident. However, they are not a substitute for primary protective devices (including eye and face protection and protective clothing) or for safety procedures when handling hazardous materials. BD-510 ABS Combination Eye Wash/Shower With Foot Pedal is made entirely of ABS material (except from the valves), which resists corrosion and is economic and durable.

Location

- In general, the ANSI standard requires that emergency equipment be installed within 10 seconds walking distance from the location of a hazard (approximately 55 feet).
- The equipment must be installed on the same level as the hazard (i.e. accessing the equipment should not require going up or down stairs or ramps).
- The path of travel from the hazard to the equipment should be free of obstructions and as direct as possible.
- The location of the emergency equipment must be marked with a highly visible sign.

Original Water

Drinking water or filtered water

Hydraulic Pressure and Flow Rate

If the pressure exceeds 0.2-0.4MPA, please install the relief valve to protect the user's eyes.
 Eye wash flow ≥ 11.4L/ Min, shower flow ≥ 75.7 L/ Min

Technical Data

Head: ABS shower head and ABS eye wash nozzle with 10" ABS eye wash bowl
 Shower valve: 1" SS304 ball valve
 Eye wash valve: 1/2" corrosion resistant brass spool
 Supply: 1" MNPT
 Waste: 1 1/4" FNPT

Training

Simply installing emergency equipment is not sufficient means of ensuring worker safety. It is also very important that employees are trained in the location and proper use of emergency equipment. Research shows that after an incident has occurred, rinsing eyes within the first ten seconds is essential. Therefore, employees at the highest risk of damaging their eyes in each department must be trained regularly. All employees must know the location of the emergency equipment and be aware that quick and effective rinsing is important in an emergency.

Eye/face Wash

- The sooner the injured employee's eyes are rinsed, the lower the risk of damage. Every second is important when preventing permanent damage to save time for medical treatment.
- All employees must be reminded that this equipment is only to be used in emergencies, tampering with the equipment may cause a malfunction.

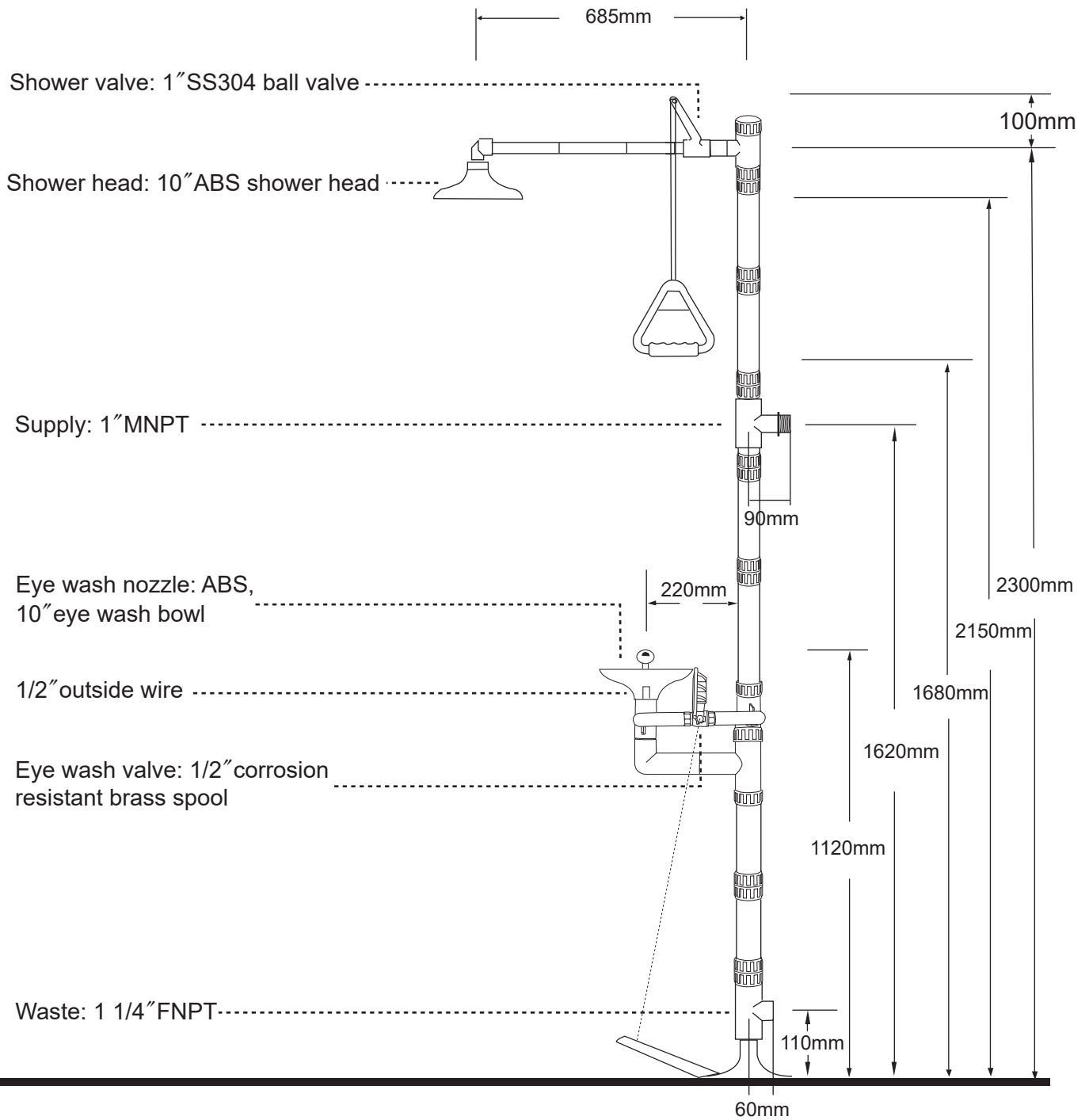
In emergencies, the afflicted may be unable to open their eyes. Employees may feel pain, anxiousness and loss. They may need others' help to reach the equipment and use it.

- Push the handle to spray the liquid.
- When liquid sprays, put the injured employee's left hand on the left nozzle, and the right hand on the right nozzle.
- Put the injured employee's head over the eye wash bowl which is hand controlled.
- When rinsing the eyes, use both hands' thumb and index finger to open the eyelids, rinsing for at least 15 minutes.
- After rinsing, seek medical treatment immediately
- Security and supervisory personnel must be notified that the equipment has been used.

Shower

- Use the pull rod to start the liquid flow.
- The injured should stand in the water flow once it has started.
- Ensure affected areas are in the water flow.
- Do not rinse by hand, to avoid further injury.

BD-510 ABS Combination Emergency Shower & Eyewash



Special Note:

1. Not anti-freeze eye wash, Using temperature must be beyond 10°C.
2. If chemicals which react dangerously with water, alternative harmless neutralizer or special eye wash solution should be used as water source.

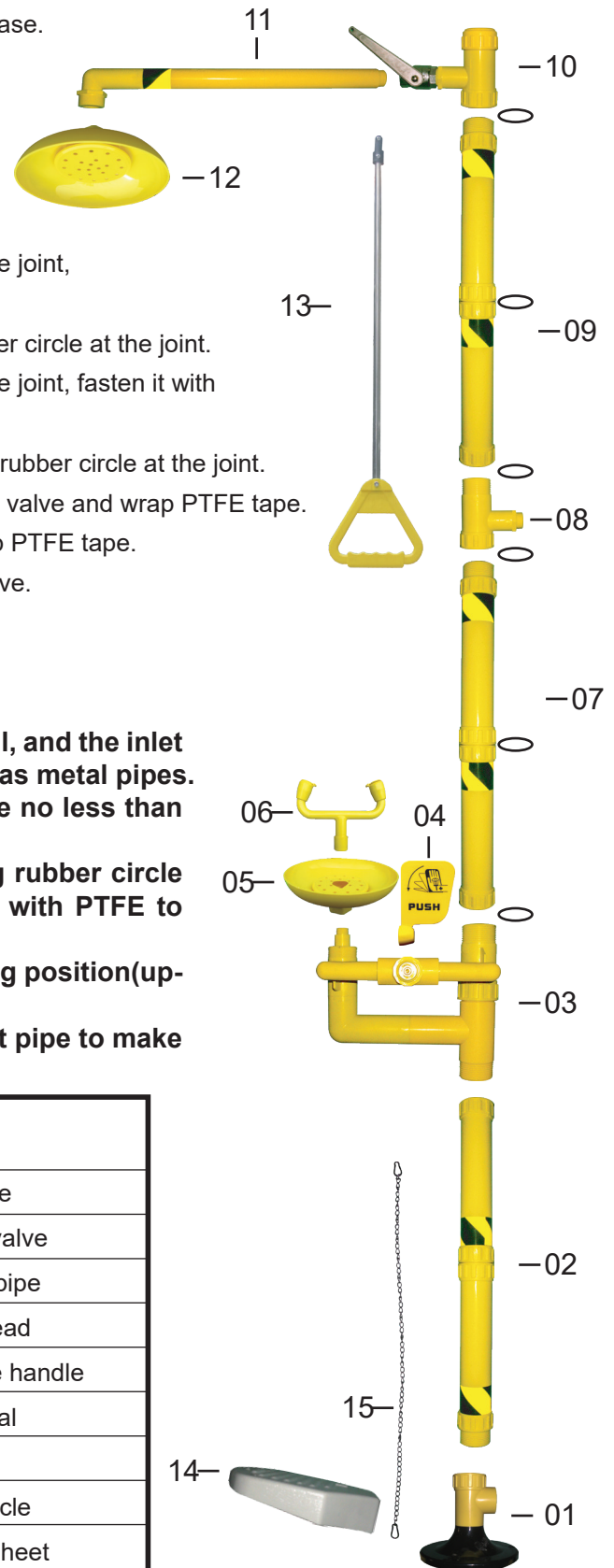
BD-510 ABS Combination Emergency Shower & Eyewash

Installation Steps

- Step 1: Take out the base and fix to the floor.
- Step 2: Connect the two main pipes together and connect to the base.
(Do not put the rubber circle)
- Step 3: Connect the main body to main pipe, facing the user.
- Step 4: 90° vertical connect the lever to the main body valve.
- Step 5: Screw the eye wash bowl onto the main body.
- Step 6: Screw the eye wash nozzle onto the main body.
- Step 7: Connect the two main pipes and put the rubber circle at the joint, connect the main body and put the rubber circle in.
- Step 8: Connect the inlet T-type to the main pipe and put the rubber circle at the joint.
- Step 9: Connect the two main pipes and put the rubber circle at the joint, fasten it with inlet T-type tightly.
- Step 10: Connect the T-type ball valve with main pipe and put the rubber circle at the joint.
- Step 11: Connect the horizontal pipe with elbow to the T-Type ball valve and wrap PTFE tape.
- Step 12: Connect the shower head to the horizontal pipe and wrap PTFE tape.
- Step 13: Connect the pull rod to the hand lever and T-type ball valve.
- Step 14: Connect the foot pedal to the base.
- Step 15: Connect the chain to the foot pedal and lever.

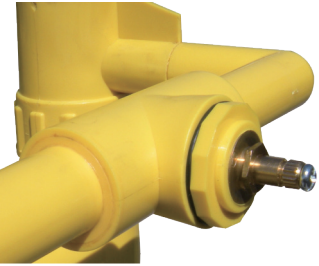
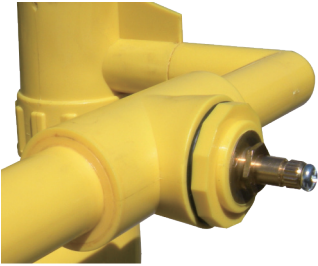
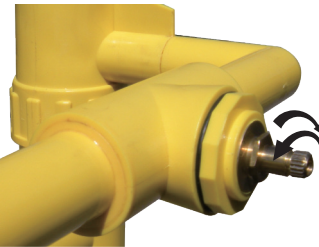
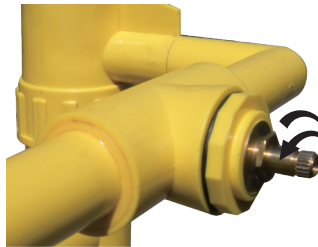




ATTENTION:

- 1. The eye wash station must be installed close to the wall, and the inlet pipe must be connected to something supportive, such as metal pipes.
- 2. The eye wash should be used indoor with temperature no less than 10°C.
- 3. The main pipes are threaded connection, with sealing rubber circle to avoid leakage. In principle, it's not allowed to wrap with PTFE to avoid cracking of the joint.
- 4. The plane side of the rubber circles face the connecting position (upward).
- 5. We recommend to install the flow filter unit on the inlet pipe to make sure the water is clean.



Accessories & Components			
No.	Accessories	No.	Main pipe
01	Base	10	T-type ball valve
02	Main pipe	11	Horizontal pipe
03	Main body	12	Shower head
04	Lever	13	Pull rod + valve handle
05	Eye wash bowl	14	Foot pedal
06	Eye wash nozzle	15	Chain
07	Main pipe	16	Rubber circle
08	T-type inlet pipe	17	Instruction sheet
09	Accessories	18	Warning sign

BD-510 ABS Combination Emergency Shower & Eyewash Instructions

Picture	Instruction	Picture	Instruction
<p>1</p> 	<p>The state of main body valve core in the package</p>	<p>1</p> 	<p>The state of main body valve core in the package</p>
<p>2</p> 	<p>After removing the lever fixing screw, turn the valve core ratchet wheel; determine the valve opening and closing state. (Can use toolkit clamp the ratchet wheel rotate left and right to determine the opening and closing state)</p>	<p>2</p> 	<p>After removing the lever fixing screw, turn the valve core ratchet wheel; determine the valve opening and closing state. (Can use toolkit clamp the ratchet wheel rotate left and right to determine the opening and closing state)</p>
<p>3</p> 	<p>Confirm the valve core state is on close, insert the lever into ratchet vertically</p>	<p>3</p> 	<p>Confirm the valve core state is on open, insert the lever into ratchet horizontally</p>
<p>4</p> 	<p>After inserted the lever vertically, using a screwdriver to tighten the fixing screw is ok</p>	<p>4</p> 	<p>After inserted the lever horizontally, using a screwdriver to tighten the fixing screw is ok</p>