

WELKEN®

BD-550A

Stainless Steel Foot Control Combination Eye Wash/Shower Instructions

Standard: ANSI Z358.1-2014



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We are insist to improve products structure and performance, without further notice if any change.

Product Concept

Emergency eye wash 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-550A Foot Control Stainless Steel Combination Eye Wash/Shower main material is SS304, the pedal is made of ABS, especially suitable for use with weak acids and alkalis. If strong acids, alkalis or chlorides are present in the environment then we recommend using the SS316 or ABS eye wash.

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 0.2-0.6MPa, please install the relief valve to protect the user's eyes.
Eye wash flow ≥ 11.4 L/Min, shower flow ≥ 75.7 L/Min.

Technical Data

Head: SS304 shower head

Eye wash nozzle: green ABS spray, others are SS304 with 10" waste water recycle bowl

Shower valve: 1" SS304 ball valve

Eye wash valve: 1/2" SS304 ball valve

Supply: 1 1/4" FNPT

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.

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.
- 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.

Technical drawing of a safety shower and eyewash station. The drawing includes the following components and dimensions:

- Optional supply:** 1 1/4" SS304 FNPT (dashed line)
- 10" SS304 shower head** (dashed line)
- Shower valve:** 1" SS304 ball valve (dashed line)
- Supply:** 1 1/4" SS304 FNPT (dashed line)
- Main pipe:** SS304 (dashed line)
- Eye wash nozzle:** green ABS spray, others are SS304 with 10" waste water recycle bowl (dashed line)
- Eye wash valve:** 1/2" SS304 ball valve (dashed line)
- Waste:** 1 1/4" FNPT (dashed line)

Dimensions:

- 650mm (horizontal distance from optional supply to shower valve)
- 750mm (vertical distance from shower valve to shower head)
- 100mm (vertical distance from shower head to shower valve)
- 2330mm (total height from floor to shower head)
- 2200mm (height from floor to eye wash nozzle)
- 1680mm (height from floor to eye wash valve)
- 1630mm (height from floor to waste outlet)
- 1090mm (height from floor to waste outlet)
- 70mm (height from floor to waste outlet)
- 145mm (width of waste outlet)
- 114mm (width of waste outlet)
- 114mm (height of waste outlet)
- 145mm (height of waste outlet)
- 210mm (width of eye wash nozzle)
- Ø 1/2 (diameter of waste outlet)

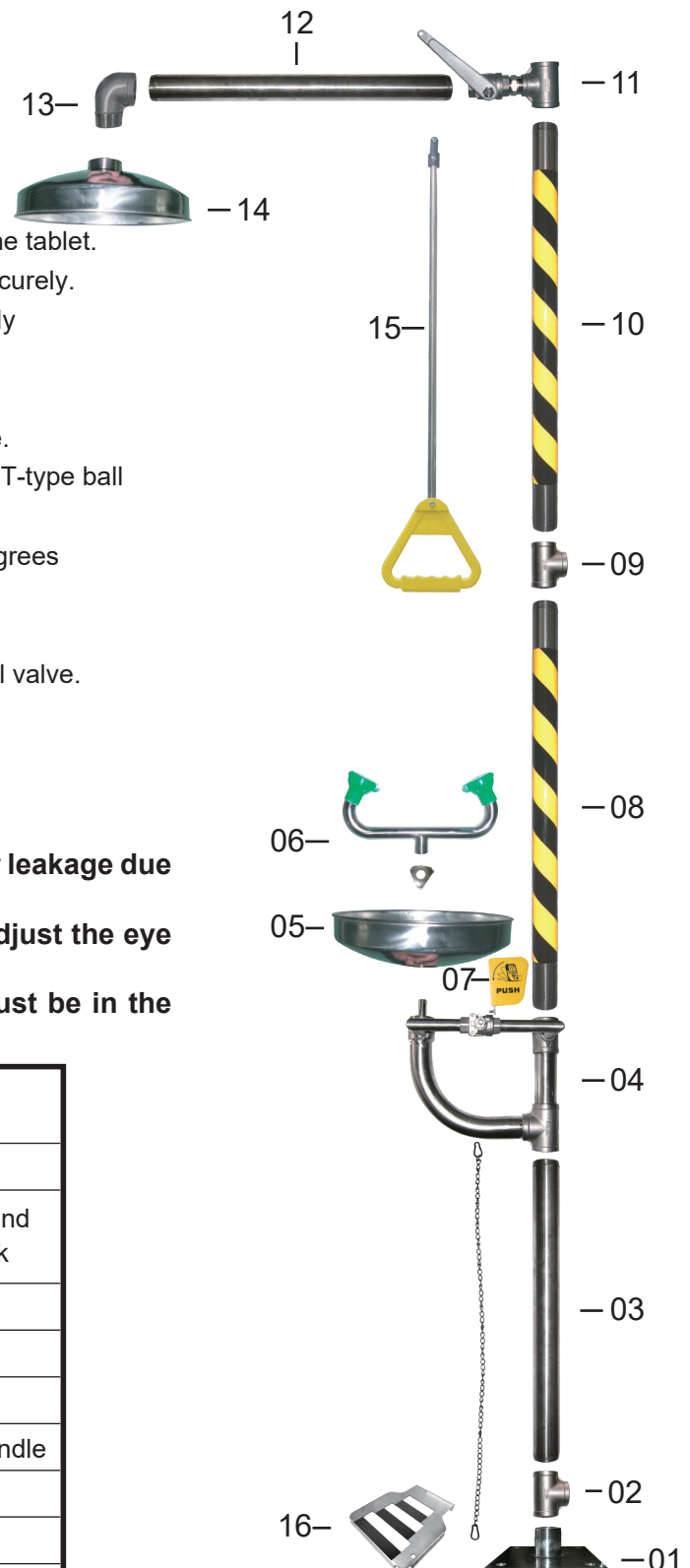
1. Not anti-freeze eye wash, Using temperature must be beyond 0°C.
2. If chemicals which react dangerously with water are present, an alternative harmless liquid will be provided. Special eye drops should also be used.

Installation Steps

Step 18: Connect the chain to the foot pedal and lever.

3. Install finished, eye wash bowl and shower head must be in the same vertical line.

Accessories & Components			
No.	Accessories	No.	Accessories
01	Base	11	T-type ball valve and T-type with Block
02	T-type drainage pipe		
03	Main pipe	12	Horizontal pipe
04	Main body	13	Elbow pipe
05	Eye wash bowl	14	Shower head
06	Eye wash nozzle, Tablet	15	Pull rod + valve handle
07	Lever	16	Pedal
08	Main pipe	17	Chain
09	Inlet T-type	18	Instruction sheet
10	Main pipe	19	Warning sign



Eye Wash Maintenance Instructions

Maintenance Instructions

1. Check the eye wash device every day to ensure that the water is normal. If there is a problem, find the reason immediately and eliminate it in time.
2. Check the water release every three days, check whether the water is normal, whether there is water leakage, and the water supply pipe scales are discharged cleanly to ensure the safety and hygiene of the eye wash.
3. Check whether the eye wash parts are damaged, missing, and affect the use.
4. Regularly clean and wipe the outside of the main pipe of the eye wash or the protective shell of the electric heat tracing eye wash to avoid acid and alkaline substances to corrode the eye wash.

Fault Check

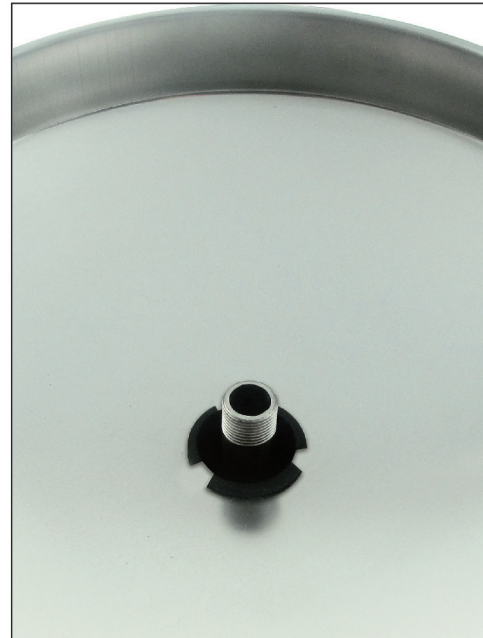
Serial Number	Fault Conditions	Methods
1	There is no water from the eye wash	(1) Check whether the water inlet is open. (2) Check whether the water inlet pipeline is frozen. (3) For the emptying type eye wash, check whether the drain valve of the eye wash is in the emptying state and whether the pedal linkage is effectively connected with the emptying system. (4) For electric heat tracing eye wash, check whether the power of the eye wash is in normal supply.
2	The water from the eye wash is too large	Set a pressure reducing valve at the water inlet
3	The water from the eye wash is too small	(1) Check if the eye wash nozzle is blocked. (2) Increase the pressure of the water source.
4	The eye wash is damaged	Contact the manufacturer or supplier to discuss repair methods or replace them directly.

Installation Method of Stainless Steel Eye Wash Bowl

Step 1



Step 2



Put the bottom of eye wash bowl in the pipe coupling

Step 3



Put the tablet to the middle of eye wash bowl

Step 4



Connect the eye wash nozzle to the joint of pipe coupling, then fix the tablet