

WELKEN®

BD-550E01

Combination Eye Wash & Shower with Curtain
and Sink 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-550E01 Combination Eye Wash & Shower with Curtain and Sink is made of 304 stainless steel, 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

Based on ANSI Z358.1-2014 standard, the water pressure should be 0.2-0.6mpa. When the water pressure is larger than 0.6mpa, or the user needs a gentler flow, please add a pressure relief valve.

Eye wash flow $\geq 11.4\text{L/Min}$, shower flow $\geq 75.7\text{L/Min}$.

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.

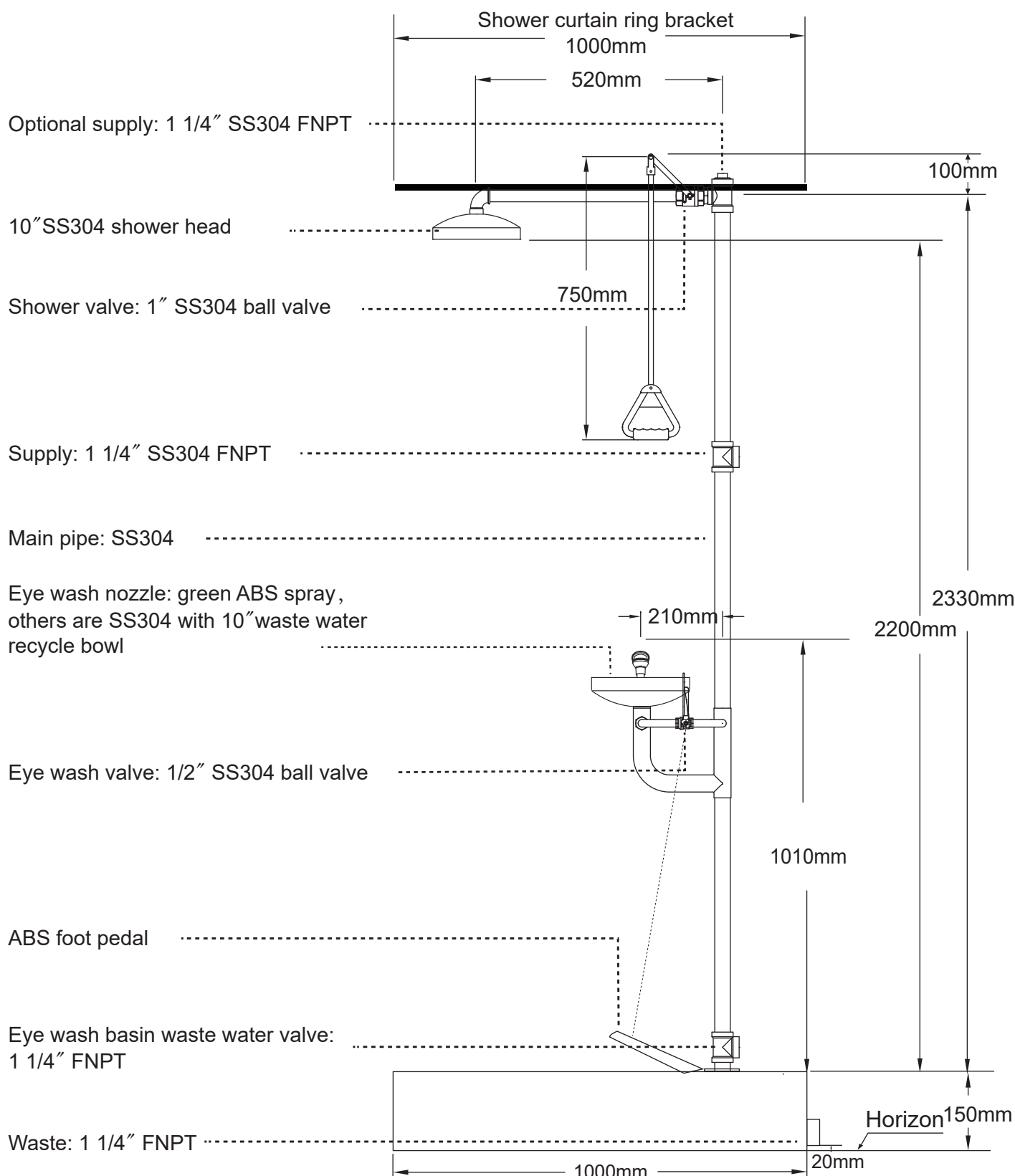
Eye/face Wash

- 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.

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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.

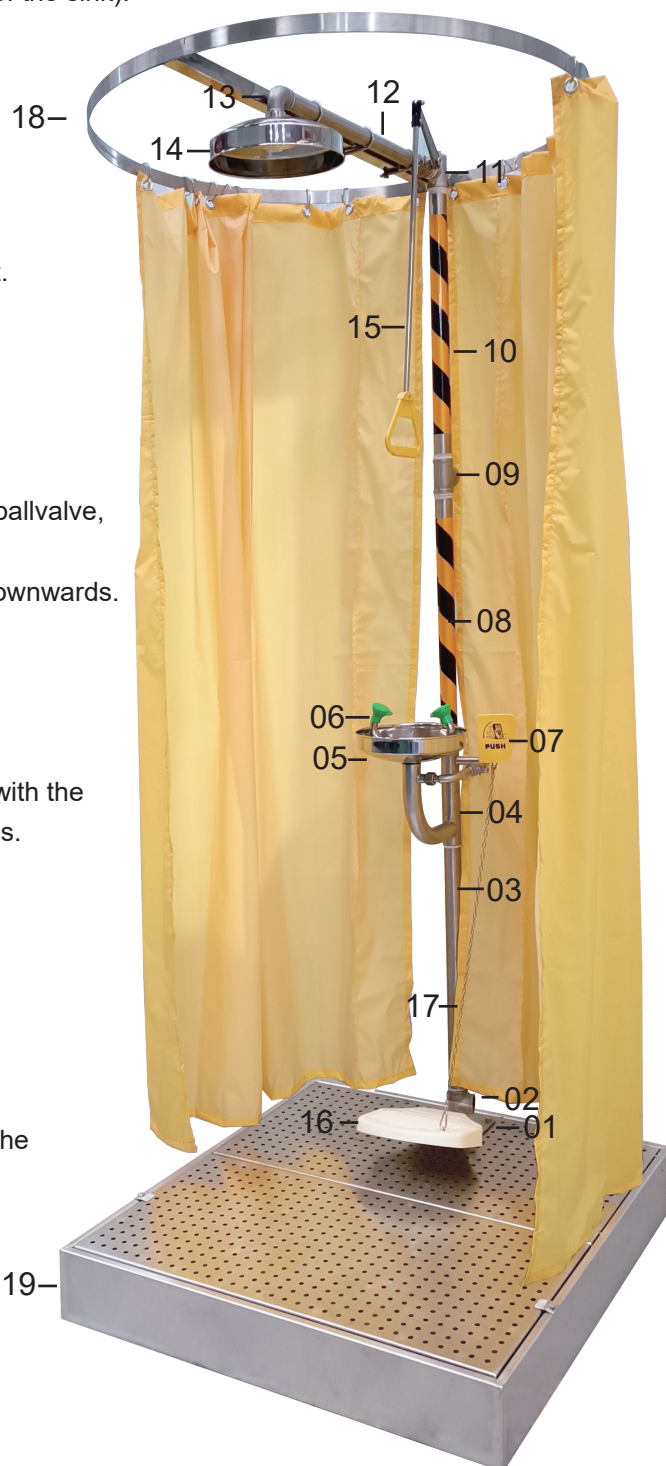
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Installation Steps

- Step 1: Install the sink at the specified position with the water outlet facing back; fix it with adhesive or screws(there are reserved holes at the corners of the sink).
- Step 2: Fix the base to the floor.
- Step 3: Connect the T-type drainage pipe to the base.
- Step 4: Connect the main pipe to the T-type drainage pipe.
- Step 5: Connect the main body to the main pipe, facing the user.
- Step 6: Connect the eye wash bowl to the main body.
- Step 7: Put the tablet to the center position of eye wash bowl.
- Step 8: Connect the eye wash nozzle to the main body, tighten the tablet.
- Step 9: Install the lever onto the main body valve and fasten it securely.
- Step 10: Connect the main pipe with reflective film to the main body
- Step 11: Connect the inlet T-type to the main pipe.
- Step 12: Connect the main pipe to the inlet T-type.
- Step 13: Connect the plugged reducing T-type with the main pipe.
- Step 14: After connect the 1" shower ball valve with the reducing T-type ballvalve, connect the horizontal pipe.
- Step 15: Tighten the reducer elbow on the horizontal pipe, 90 degrees downwards.
- Step 16: Connect the shower head to the elbow pipe.
- Step 17: Connect the pull rod and valve handle to the shower ball valve.
- Step 18: Connect the foot pedal to the base.
- Step 19: Connect the chain to the foot pedal and lever.
- Step 20: Connect the circular ring with the eye wash station. Fix the ring with the horizontal pipe of the eye wash station with self-contained cables.
- Step 21: Install the curtain with the circular ring.

ATTENTION:

1. All joints of the eye wash stations should be wrapped with PTFE seal tape to avoid water leakage;
2. Do not tighten the joints too much and leave some space to adjust the eye wash position and avoid damage;
3. After installation, the eye wash bowl and the shower head must be in the same vertical line.



Accessories & Components

No.	Accessories	No.	Accessories	No.	Accessories
01	Base	11	T-type ball valve and T-type with Block	20	Instruction sheet
02	T-type drainage pipe			21	Warning sign
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	Circular ring		
10	Main pipe	19	Sink		

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.

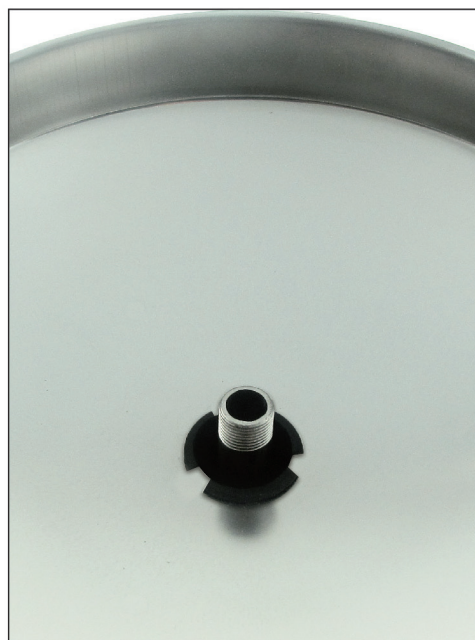
Installation Method of Eye Wash Bowl

Step 1



Observe the position of the built-in rubber gasket in the eye wash bowl, if there is any deviation, please put the rubber gasket in right position.

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