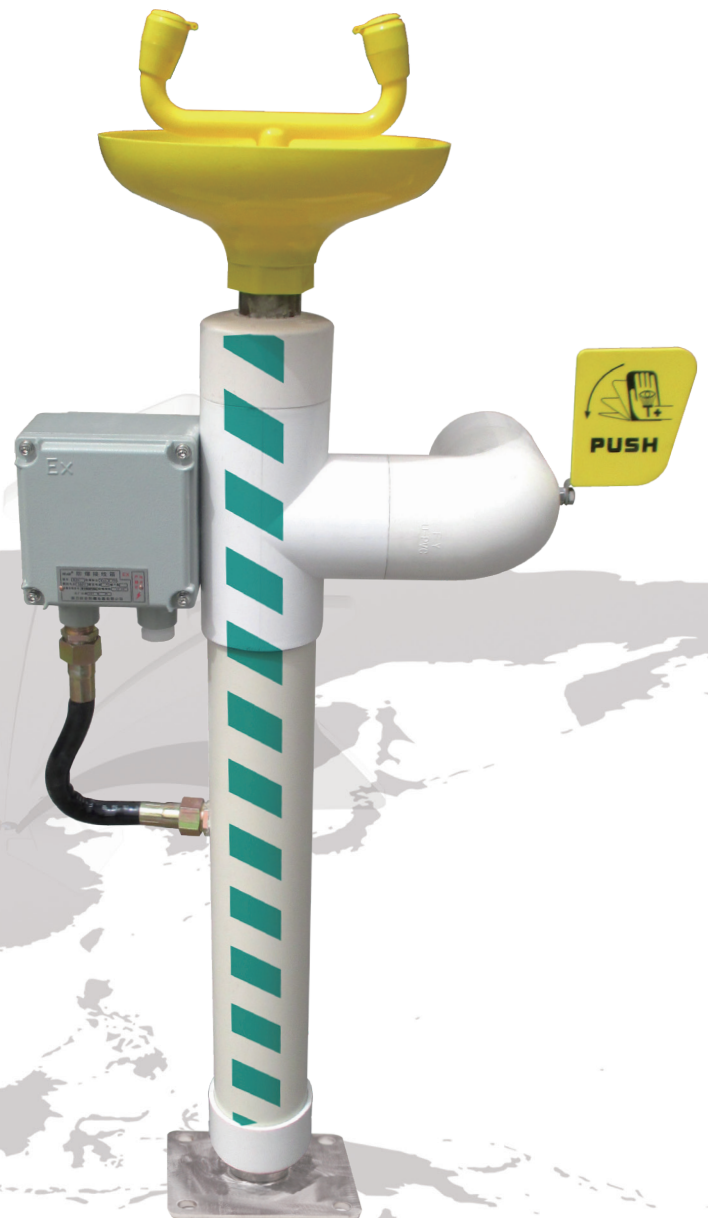


WELKEN®

BD-540D

Cable Heated Stand Eye Wash 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-540D is suitable for ambient temperature below 0°C, especially for danger environment where needs explosion proof protection. This eye wash explosion proof level is Exe II T6, can customize explosion proof level as customer request.

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 $\geq 11.4\text{L/Min}$.

Technical Data

Head: ABS plastic eye wash with 10" waste water recycle bowl
Eye wash valve: 1/2" corrosion-resistant SS304 ball valve
Supply: 1/2" MNPT
Waste: 1 1/4" FNPT
Voltage: 220V-250V
Power: $\leq 250\text{W}$

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.

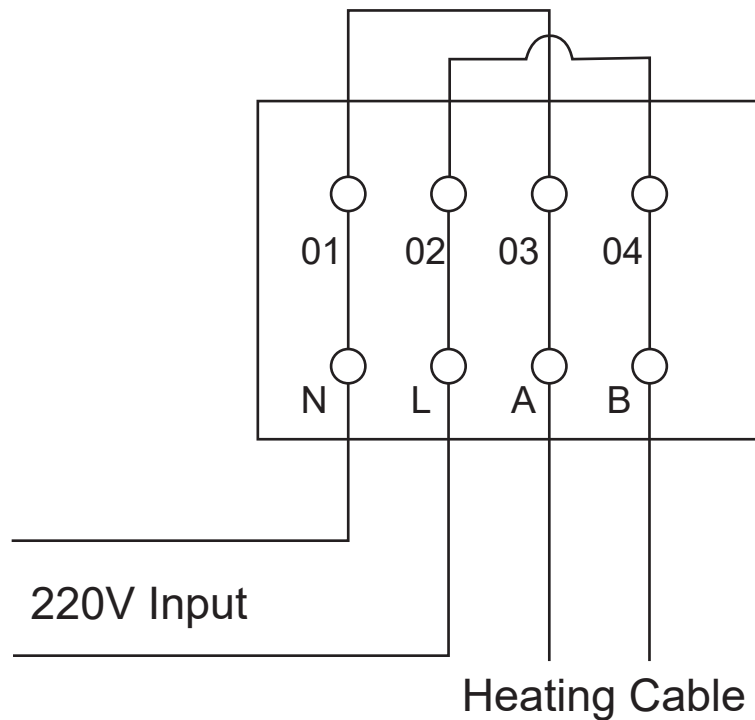
Eye/face Wash

- 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.

BD-540D Cable Heated Stand Eye Wash Instructions



Installation Method

Erect the eye wash at the installation site, fix the base to the bolt on the floor and fix the ground wire to one bolt. Then, connect the water pipe to the eye wash supply and do antifreeze processing. Finally, connect 220V power supply.

Instructions

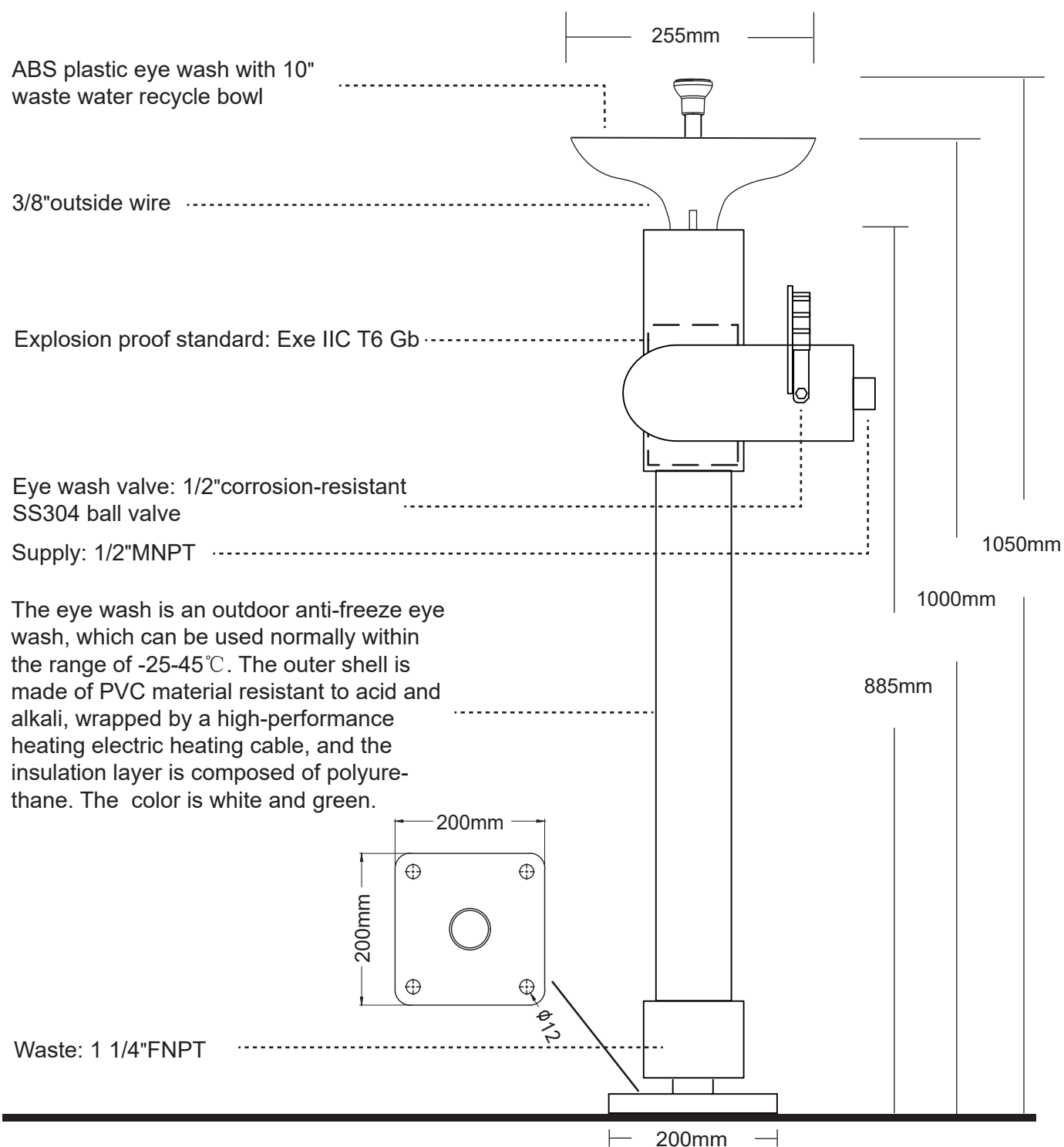
Water test: After installation, check the firmness of every parts. Fill water into the eye wash. Push the valve of eye wash bowl, and see whether the water cross in the middle of two sprayers, if yes, the hydraulic pressure is proper. Otherwise, then the hydraulic pressure is lower, please adjust it to be higher. If water crosses too high and sprays out, it means the hydraulic pressure is higher, please adjust it to be lower. After that, pull back the valve of eye wash bowl.

Power: Turn on the power. Then start work.

Usage: When using, push the valve of the eye wash, water will spray out automatically.

Maintenance: Check the eye wash everyday in winter. Make sure the power supply works normally and the temperature is above zero. Flow out the water every three days if long time no use and flow out the water rust in the pipe in order to make sure safety and health.

BD-540D Cable Heated Stand Eye Wash Instructions



Special Note:

1. If chemicals which react dangerously with water are present, an alternative harmless liquid will be provided. Special eye drops should also be used.
2. When the average temperature of the environment is above 0°C, please cut off the power to avoid excessive heating time and high water storage temperature.

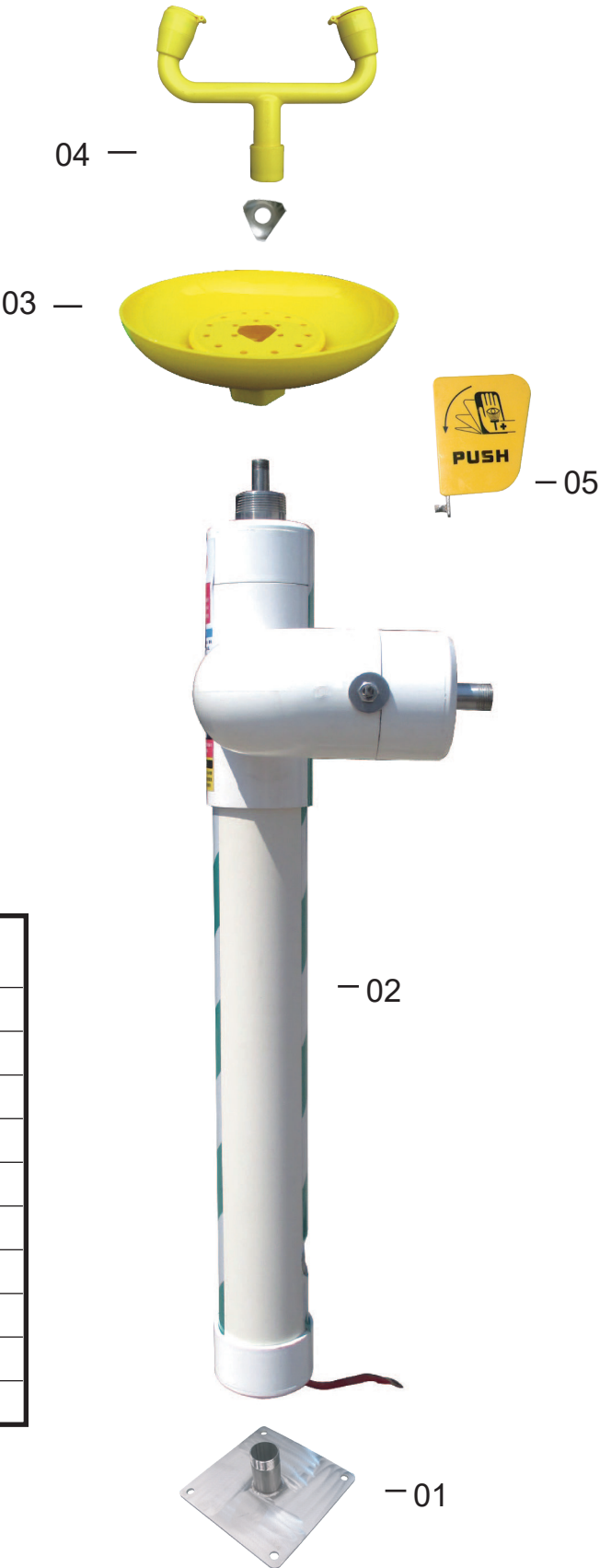
BD-540D Cable Heated Stand Eye Wash Instructions

Installation Steps

- Step 1: Connect the main body to the base.
- Step 2: Connect the base to the floor.
- Step 3: Put the eye wash bowl to the main body.
- Step 4: Put the tablet to the center position of eye wash bowl.
- Step 5: Connect the eye wash nozzle to the main body, tighten the tablet.
- Step 6: Install the lever onto the ball valve.

ATTENTION:
When fix the joint, do not back, which can avoid water leakage due to loss of sealing of PTFE.

Accessories & Components	
No.	Accessories
01	Base
02	Main body
03	Eye wash bowl
04	Eye wash nozzle, Tablet
05	Lever
06	Instruction sheet
07	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 ABS 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