

WELKEN®

BD-570A

Portable 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-570A portable combination eye wash/shower is used in areas without a water supply, the maximum water storage is 45L (about 12 gallons).

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.
Washing time ≥ 15 Minutes

Technical Data

Head: 10" SS304 shower head
SS304 with ABS nozzle and
Shower valve: 3/4" SS304 ball valve
Eye wash valve: 1/2" SS304 ball valve
Supply: 56mm
Waste: 1/2" 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.

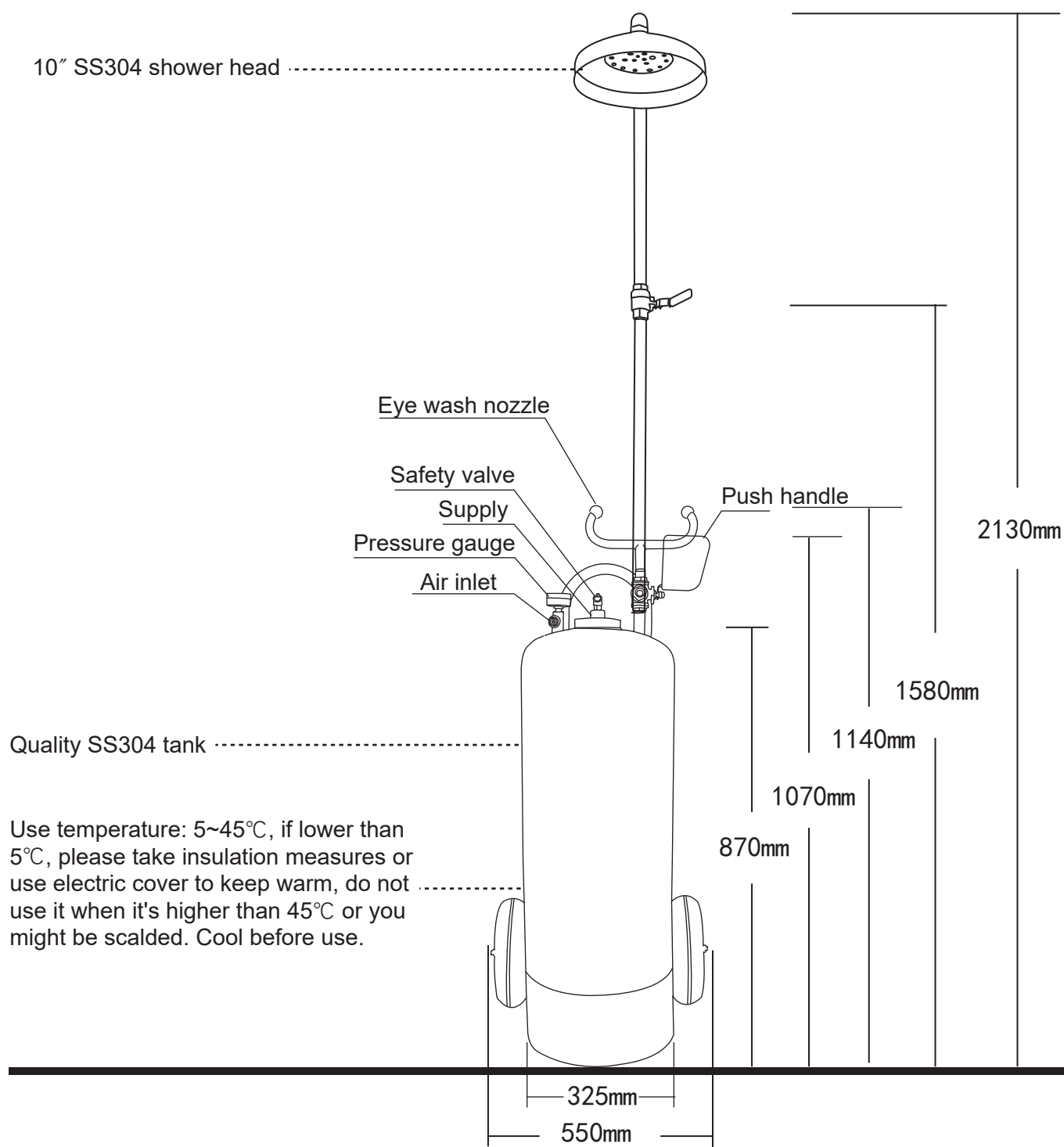
- Push the handle to spray the liquid.
- When liquid sprays, put the injured employee's left hand on the left nozzle, and the right hand on the right nozzle.
- Put the injured employee's head over the eye wash bowl which is hand controlled.
- When rinsing the eyes, use both hands' thumb and index finger 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.

Note: If chemicals which react dangerously with water are present, an alternative harmless liquid will be provided. Special eye drops should also be used.

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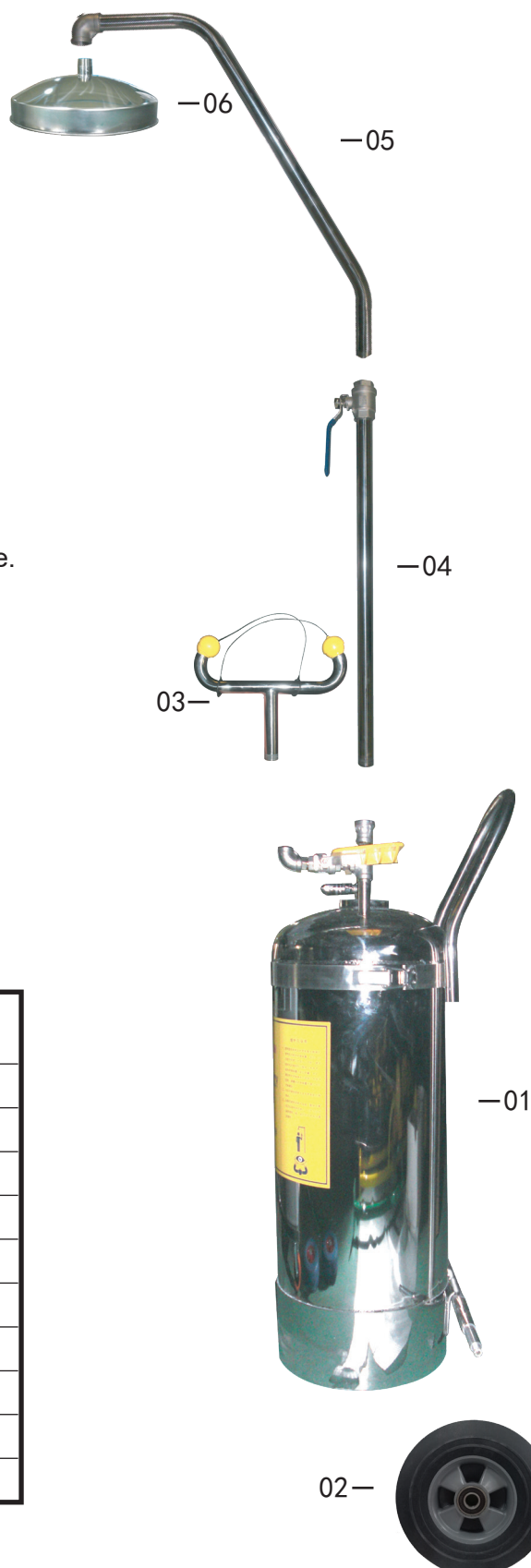


BD-570A Portable Eye Wash/Shower Instructions

Installation Steps

- Step 1: Take out the water tank.
- Step 2: Take out the rubber wheel, and join them to the water tank.
- Step 3: Connect the eye wash nozzle to the elbow.
- Step 4: Connect the main straight pipe to the water tank.
- Step 5: Connect the main angled pipe to the ball valve .
- Step 6: Connect the shower head to the main straight pipe.

ATTENTION: Wrap every joint between pipes with PTFE tape.



Accessories & Components	
No.	Accessories
01	Water tank
02	Two rubber wheels
03	Eye wash nozzle
04	Main straight pipe
05	Main angled pipe
06	Shower head
07	Instructions
08	Warning sign

BD-570A Operation Guide

1. Water filling:

Unscrew the water inlet on the top of the tank and fill it with special flushing fluid or pure drinking water. As the flushing fluid inside the tank is filled, the internal liquid level control float rises. When you see the yellow float blocking the water inlet, proves that the flushing fluid is full. Tighten the water inlet.

Note: It is necessary to ensure that the water inlet thread is properly tightened. Misaligned threads are not allowed to fasten, otherwise it will cause damage to the water inlet, and the pressure of the water inlet will be relieved if the water inlet is not sealed properly.

2. Pressurize:

After tightening the water inlet, connect the inflation interface at the pressure gauge of the eyewash with the air compressor using an inflation hose. When the pressure gauge reading reaches 0.6MPa, Stop pressurizing.

3. Water storage replacement:

The flushing fluid in the eyewash tank should be replaced regularly. If a special flushing fluid is used, please replace according to the flushing fluid instructions. If the customer uses pure drinking water, please change it regularly according to the ambient temperature and internal management procedures to avoid the growth of bacteria when the flushing fluid is stored for too long.

When the customer replaces the water storage, first drain the pressure in the tank:

Method 1: Use the inflation quick connector to open the inflation port at the pressure gauge to empty the pressure in the tank.

Method 2: Pull up the water inlet red safety valve pull ring until the pressure is emptied.

Then unscrew the drain ball valve at the bottom of the tank to empty the water. Close the ball valve after emptying and open the water inlet and fill the flushing fluid.

4. Storage conditions of eyewash:

The BD-570A eyewash does not have the function of antifreeze, and it is required to place the eyewash in the ambient temperature where must be above 5°C. If the requirement above 5°C can not be reached, consider customize the special insulation sleeve, but the site where the eyewash is placed must have the power connection conditions.

5. Maintenance:

① The eyewash device should be maintained by a dedicated person daily, and check the pressure gauge reading, such as when the pressure gauge reading is lower than the normal value of 0.6MPa, it is necessary to replenish the pressure to normal value 0.6MPa in time.

② In principle, the eyewash should be filled with flushing fluid every time it is used, and when not using, the flushing fluid should always be in a standard capacity 45L (about 12 gallons).

③ If you don't use it for a long time, empty the water, clean the inside and outside, and put it in a place with better sanitary conditions. Do not store it with chemicals or leave it outdoors for a long time.

