

UMWELF



Anti-freeze and Automatic Emptying Stainless Steel
Combination Eye Wash & Shower

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.

The material of the eyewash body, foot plate and emptying box are all 316L stainless steel. Especially suitable for areas under 0° of ambient temperature. When the washing is finished, you should leave from the foot plate, the water supplier system will be closed. While you should not close the shower valve until the pipe's water will empty in one minute. So that it can be in anti-freeze function in the outside door in winter.

Technical data

Design Standard: ANSI Z358.1–2014

Shower Valve: 1" SS316L ball valve

Eye Wash Valve: 1/2" SS316L ball valve

Inlet Water: GB9119 standard DN20 PN10 (Other flange can be customized to requirement)

Type A: water inlet at left

Type B: water inlet at right (optional)

Outlet Water: 1" FNPT

Flow rate

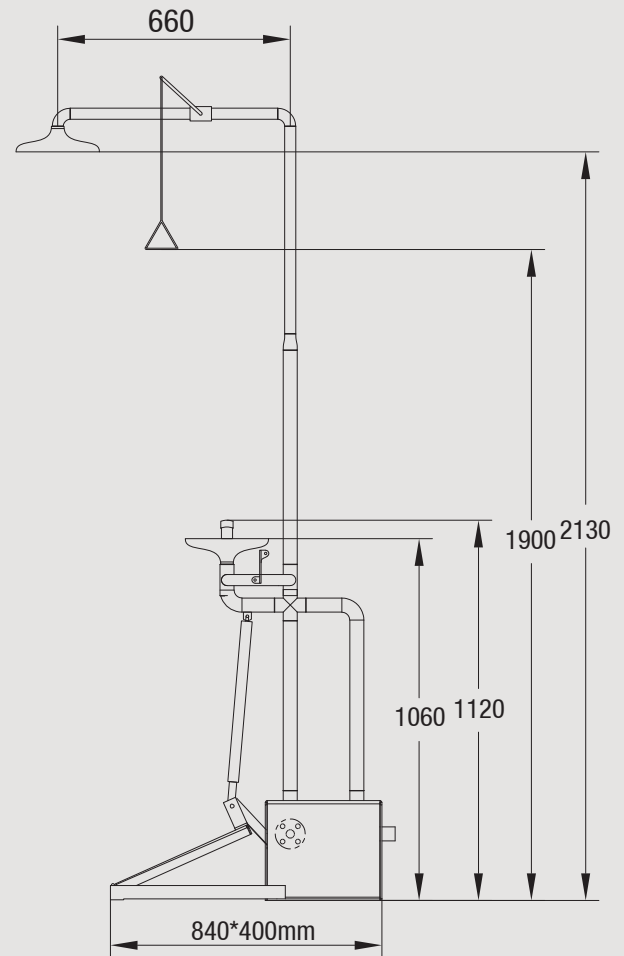
Eye wash flow $\geq 11.4\text{L/Min}$, shower flow $\geq 75.7\text{L/Min}$

Original water

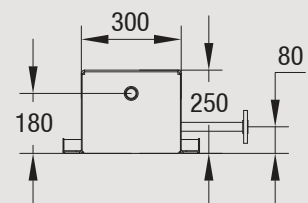
Drinking water or filtered water

Location

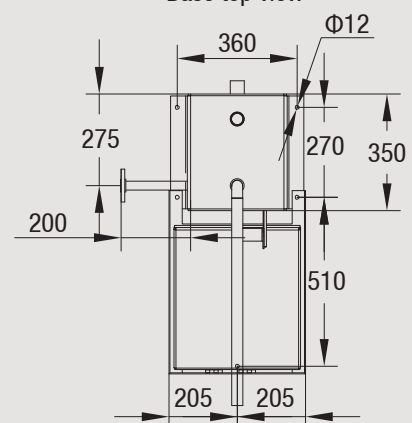
- In general, the ANSI standard requires that emergency equipment be installed within 10 seconds walking distance from the location of a hazard (approximately 55 feet).
- The equipment must be installed on the same level as the hazard (i.e. accessing the equipment should not require going up or down 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.



Base rear view



Base top view



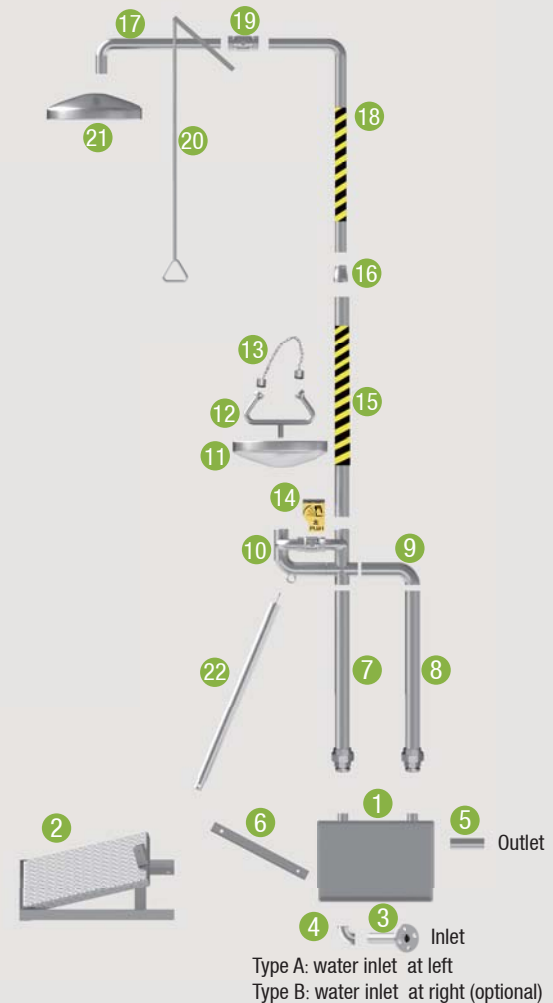
Installation

1. Take out the base box(1)pedal (2) and fix to the floor.
2. Connect 7.8.9.10 to base box(1)
3. Connect the eye wash bowl(11) to the eyewash assembly(10)
4. Connect the eye wash nozzle(12) to the inner part of eyewash assembly(10)
5. Install push handle(14) to valve of eyewash assembly(10) with screw it.
6. Connect the pedal plate(2)to the eyewash assembly(10) with spring(22)
7. Connect the pedal (2) and handle of three way ball valve (in the base box 10) with bridge(6)
8. Installation water inlet(3&4) and outlet(5)
9. Connect the 15.16.18.19.17.21 to equipment
10. Installation valve handle & lever(20) to valve(19),

All the joints connections are wrapped with PTFE tape. Threaded connections are 80 percent to reserve the space to adjust, in case of something wrong in the calibration step.

Commissioning

1. After instaling the eye wash, connect the inlet water pipe and outlet water pipe.
2. The test engineer is standing on the pedals wearing a raincoat. At this time, the eyewash is on the state of the water inlet . Observe whether there is any leakage of the pipe joints and remove them in time.
3. Pull down the pull rod of the shower valve manually to check whether the flushing water is normal.
4. Push the handle of eye wash valve to check whether the flushing water is normal.
5. The shower valve and the eye wash valve are reset and closed, and the test engineer leaves the pedal. When the pedal is returned, test engineer observes whether the eyewash is emptying the water. At this point, open the eye wash valve, if eye wash does not water, you can confirm that the eye washer has drained water.
6. In the process of adjustment, if there are any problems, the test engineer should be eliminating it in time.



NO.	Name	Qty.	Material
1	Base	1	316L
2	Pedal assembly	1	316L
3	DN25 inlet pipe with DN20 flange	1	316L
4	DN25 elbow + direct	1	316L
5	DN25 drain pipe	1	316L
6	bridge	1	316L
7	DN32 pipe with live connection reducer (short)	1	316L
8	DN32 pipe with live connection reducer (long)	1	316L
9	DN32 elbow + short tube	1	316L
10	Eyewash assembly	1	316L
11	eye wash bowl	1	316L
12	eye wash nozzle	1	316L
13	eye wash nozzle hat	1	316L
14	Push handle	1	PVC
15	DN32 tube	1	316L
16	DN32-25 variable diameter (inner wire size head)	1	316L
17	DN25 elbow (short)	1	316L
18	DN25 elbow (long)	1	316L
19	DN25 ball valve	1	316L
20	DN25 ball valve lever + handle	1	316L
21	Shower	1	316L
22	Spring tube assembly	1	316L
23	Bolts, washers, nuts	2	316L



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