

## **Installation- and maintenance guide**

### **1] EQUIPMENT LOCATION AND INSTALLATION**

Emergency showers must be located close to hazard zones and be reachable within a few seconds. The number of emergency showers/eye washes available and their individual locations must be evaluated when determining locations. High visibility is important and can be achieved with clear signage and proper lighting.

Eye- and face washes should be installed 1000 +/- 200 mm from the floor to the upper edge of the flushing nozzle and body showers 2200 +/- 100 mm from the floor to the lower edge of the shower head.

### **2] WATER FLOW**

The amount- and flow of water is essential for an emergency shower to work properly, and pipe dimensions must be adapted to get the recommended flow. GIA Premix emergency showers are equipped with built-in automatic flow- and pressure compensation and the regulator operate automatically between 2.4-7 bar. If the pressure exceeds 7 bar a reducing valve must be installed. The water supply must be adapted to allow the eye/face wash and body shower to be activated at the same time. The rinsing of eye/face- and/or body showers should generally be carried on for 15-30 minutes, which should be seen as a preventive measure until the medical staff has arrived.

### **3] TEMPERED WATER REQUIREMENT**

The outlet temperature for an eye- and face wash should be 20-30 °C. From January 2021 it's recommended by the Swedish Work Environment Authority to also temper the water in body showers (AFS 2023:12).

### **4] MAINTENANCE**

Eye wash- and emergency shower stations are of critical importance in any workplace with hazardous substances. Using an emergency shower can help prevent permanent injury. Improper maintenance can lead to several hazards. Weekly activation and inspection are recommended to ensure an overall functioning, reduce the risk of bacteria growth due to stagnant water and extend the life of your equipment. Inspections should be documented.

#### **Recommended checklist:**

- Is the area around the shower free of any obstructions?
- Are the valves easily activated and does the valve stay on?
- Are nozzle covers removed when the valves are activated?
- Does the water flow consistently in a steady stream?
- Does the water supply deliver required flow when body shower and eye/face wash operates simultaneously?
- Is the water clear?
- Is the water temperature constant?
- Does the water drain properly?

### **5] DIRECTIVES AND STANDARDS**

GIA Premix complies with European standards EN 15154-1 & 2:2006, the American ANSI Z358.1 2014 and Swedish regulations according to AFS 2023:12.

