

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 the layout. 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.

Regularly inform and train in case of emergency all personnel and the security team.

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**.

3] TEMPERED WATER REQUIREMENT

The outlet temperature for an eye- and face wash should be between 20-30 °C according to Swedish law and from January 2021 it's recommended by the Swedish Work Environment Authority to also temper the water in body showers (AFS 2020:1).

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. **Monthly activation and inspection is recommended** to ensure an overall functioning, reduce the risk of bacteria growth due to stagnant water and extend the life of your equipment. A minimum of two (2) inspections must be documented annually according to Swedish law.

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 2020:1**



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