

## Installation, Operation and Maintenance Instructions

### Emergency Eye and Eye/Face Wash Equipment

- **Self-Contained: STD-28G**

#### Warranty Information

Hughes Safety Showers Ltd guarantees the products it manufactures or sells against defects in workmanship and material for a period of one (1) year from the date of shipment or date of invoice, whichever is later. The product must be used, maintained and installed according to the instructions and procedures provided, or this warranty is void. Any alteration or modification of the product will also void this warranty. Hughes Safety Showers obligation under this warranty is limited to repair or replacement of defective products. No other warranty or remedy shall be provided. This warranty specifically does not guarantee or cover payment or reimbursement of any damages or consequential damages other than repair or replacement of the product.

Any claim under this warranty must be made in writing within twelve (12) months of the date of shipment or the date of invoice, whichever is later. The owner must prepay shipping costs of all products returned to Hughes Safety Showers Ltd under this warranty. If it is determined that the product is defective in material and /or workmanship the repair or replacement will occur, at Hughes Safety Showers option, at no charge and return freight prepaid by Hughes Safety Showers. All other return of the product to the owner shall be at the owner's expense.

Proper use by the customer is necessary for the effectiveness of the product, as well as the safety of those using the same. The user is solely responsible to determine the suitability of any Hughes Safety Showers product for any intended use. The user assumes all risk and liability for use of any Hughes Safety Showers product. User specifically acknowledges receipt of proper instructions regarding the use of the product in the original packaging and disclaims any consequential damages to person or property, damages for loss of use, lost time, loss of profit, lost income, loss of the Hughes Safety Showers product itself and/or other incidental or consequential damages other than as warranted by this limited warranty. User accepts the responsibility of removing from service any product that becomes worn out, unusable, unfit for the intended use or defective in any way such as to make the product a potential safety hazard. Hughes Safety Showers is unable to undertake such obligations or responsibilities on behalf of the user as the user is in sole possession and control of the product.

## General Considerations

When planning the installation of emergency safety showers and eye/face wash equipment, the advice of a qualified first aid representative or medical advisor should be sought to establish the most suitable location and procedures for first aid and decontamination.

Installation should be in accordance with local legislation and industry standards such as ANSI Z358.1-2014 recommendations. Visit [www.hughes-safety.com/standards](http://www.hughes-safety.com/standards) for more information.

### Location & Accessibility

- Emergency safety showers and eye/face wash equipment must be installed within 66 feet, or 10 seconds reach of, and on the same level as, a potential hazard. Where strong acids or caustics are used, equipment must be immediately adjacent to the hazard and outside of any spray paths.
- Equipment must be in a prominent position, free from any obstructions and clearly visible.
- Adequate drainage should be available in the area around and underneath the safety shower or eye/face wash. Consideration should be given to the placement of equipment in the vicinity of the safety shower that are sensitive to water or diluted chemicals, notably electrical items.
- For equipment located indoors, wastewater must be contained for subsequent safe disposal or there must be adequate drainage. Procedures must be in place for cleaning residue water after safety shower use.
- Loose objects or gravel should not obstruct the operation of the shower where walk-on foot panels or foot treadles are fitted.

### Visibility

- An ISO 3864.1 compliant safety sign should be displayed on or near the safety shower or eye wash. The sign should be well positioned so it is visible to all within the hazardous area.
- The area must always be well lit with the operating mechanism remaining clearly visible.

## Installation and Commissioning

### Assembly and mounting

The unit is suitable for wall mounting if required, brackets are provided.

### Filling and pressurising the STD-28G

1. Squeeze the lever to release the pressure in the unit.
2. Remove the head assembly and clean all parts thoroughly.
3. Ensure the overfill tube is in place.
4. Fill the unit with 2.9 US Gallons (11 litres) of potable water.
5. Replace the head assembly and the safety pin.
6. Pressurise to 100 PSI (6.9 Bar) via the air-valve using either an air-line or a foot pump.

**Caution: When charging the unit, the maximum working pressure should not be exceeded. Ensure the pressure gauge pointer is in the green zone when fully charged.**

### Water supply

Emergency safety showers and eye/face wash equipment must be fed from a potable water supply – drinking water or water of a similar quality.

**Working Pressure: 100 PSI (6.9 Bar) at 59F (15C)**  
**Test Pressure: 200 PSI (13.8 Bar)**  
**Burst Pressure: 1000 PSI (69 Bar)**

## Operation

**Employees working within hazardous areas must be trained in the use and location of emergency safety showers or eye/face wash equipment. Instructions for all emergency equipment should be readily available and accessible to personnel.**

To operate:

- Pull out the pin
- Remove the dust cover
- Squeeze lever
- Wash the contaminated area until the unit is empty
- Seek medical advice

## Maintenance

Regular servicing and maintenance of emergency safety shower and eye/face wash equipment is essential to ensure correct functionality. All services and weekly activations must be recorded to ensure a full history is maintained as per European and International standard requirements.

### Weekly activation

All equipment should be visually inspected and activated at least once a week to ensure it is operating properly, to clear the line of any sediment build up and check that the water runs clear.

Where fitted, the external test handle can be used for ease.

Please visit [www.hughes-safety.com/weekly-activation](http://www.hughes-safety.com/weekly-activation) to download the checklist and video detailing what to look out for to remain compliant.

### Servicing and cleaning

Hughes recommend equipment be serviced and cleaned regularly, and at least every 6 months. To discuss Hughes service contract options or to purchase spare parts call us on (1) 866-312-1652 or email [customer.service@hughes-safety.com](mailto:customer.service@hughes-safety.com)

Regular cleaning of the outside of the emergency equipment is recommended. Abrasives or solvents must not be used to clean the unit as this can damage the surface or affect the instruction stickers.

The water contained within the unit should be replaced at weekly intervals, depending upon the quality of the local potable water supply, and the unit re-charged.

The addition of water preservative will help prevent bacteria and prolong the water quality. If water preservative is used, the unit should be cleaned and refilled every 120 days.

#### Aerated diffuser:

- To clean the aerated diffuser, unscrew the removable eyebath cup and dust cover to expose the aerator
- Unscrew the aerator, taking care not to misplace the internal rubber washer and the green nylon seating washer.
- Remove the aerator from its housing, and along with the eyebath cup, dust cover and washers, clean thoroughly.
- No sealants are required when refitting (M24 Aerator 01 03 075 0061 – see fig. 1)

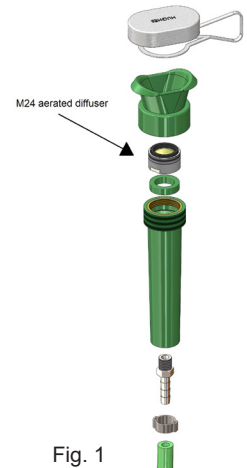


Fig. 1

## Out of Service Procedure

In the event of an emergency safety shower, eye bath or eye/face wash unit being temporarily out of service, a standard procedure should be followed.

- Place a sign on the unit indicating it is 'Out of Service'.
- Notify the relevant manager/supervisor of the area that the unit is out of service
- Prohibit or suspend any work where there is a significant hazard requiring use of the unit
- If work cannot be prohibited or suspended, a portable unit must be provided to supply the initial wash only, after which it will be necessary to move the person to a plumbed emergency safety shower, eyebath or eye/face wash unit to complete the procedure.

Note: Portable units are not acceptable as a long-term substitute for permanent locations.

**A selection of our emergency safety showers are available to hire. Ensure your workforce are protected around the clock, visit [www.hughes-safety.com/hire](http://www.hughes-safety.com/hire) for more information.**

If you require further assistance please contact us:

T: (1) 866-312-1652

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