

WALL MOUNTED - EYE/FACE WASH BODY SPRAY WITH RECOIL HOSE

Installation, Operating & Maintenance Instructions

EL485



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NOTE: THIS DOCUMENT IS TO BE LEFT ONSITE WITH FACILITY MANAGER AFTER INSTALLATION

Call 1300 369 273
www.enware.com.au

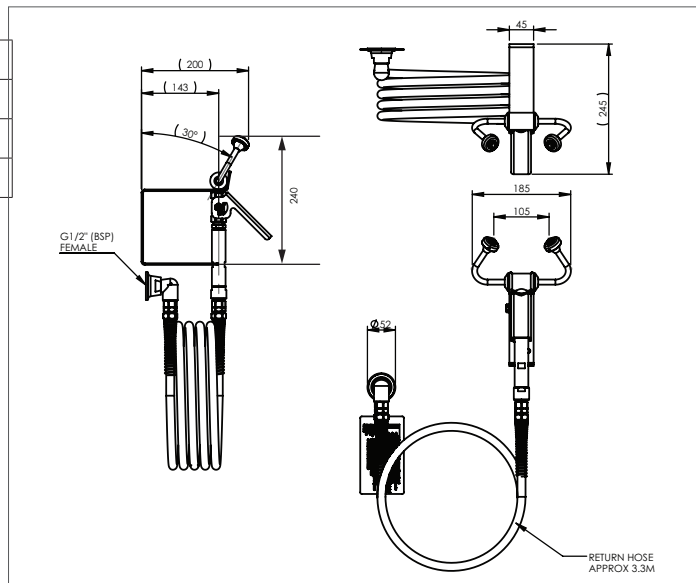
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technical data

Inlet Connection	½" (BSP) Female
Working Pressure Range	10-1000kPa
Recommended Pressure	100-500kPa
Operating Temperature Range	Tepid*

*Recommended temperature range for tepid fluids is 15.6°C - 37.8°C



installation compliance

Installation of emergency showers, eye and eye/face wash equipment shall be in accordance with AS/NZS4775-2007 or ANSI Standard Z358.1-2009 - whichever is applicable to the installation. To meet ANSI Z358.1-2009 and AS4775-2007 eye wash outlets need to be between 838mm to 1143mm from the surface where the user stands.

Supply Lines

Installation procedures shall be in accordance with correct plumbing practices. Supply piping shall be adequately sized to meet flow requirements. If shut off valves are installed for maintenance purposes, provisions shall be made to prevent unauthorised shut off.

Placement of Emergency Equipment

Emergency eyewash and shower equipment shall be available for immediate use. It shall take no longer than 10 seconds for an individual to reach the nearest facility.

Factors that influence the location of emergency facilities include workplace lighting, obstructions to the path of travel and the work environment.

It should be noted that some situations may warrant the placement of equipment significantly closer to the hazard. In these situations, such as exposure to highly corrosive chemicals, the proper distances should be selected based on the advice from appropriate consultants. For situations such as exposure to strong acids or alkalis, due consideration needs to be given to possible reaction between the flushing fluid and the chemical if the flushing fluid enters a bulk container of the chemical.

Instructions for all emergency equipment shall be readily accessible to maintenance and training personnel.

Employees who may be exposed to hazardous materials shall be instructed in the location and proper use of emergency shower equipment.

Flushing Fluid Temperature

Continuous and timely irrigation of affected tissues for the recommended irrigation period are the principal factors in providing first aid treatment. Providing flushing fluid at temperatures conducive to use for the recommended irrigation period is considered an integral part of providing suitable facilities. Medical recommendations suggest a flushing fluid at tepid temperature be delivered to affected chemically-injured tissue.

Temperatures in excess of 38°C have proven to be harmful to the eyes and can enhance chemical interaction with the eyes and skin. During design and installation, the effects of exposure of pipe to sun, radiant heat or other heat sources should be considered, and suitable control measures should be introduced to avoid any risk of scalding.

While cold flushing fluid temperature provide immediate cooling after chemical contact, prolonged exposure to cold fluids affects the ability to maintain adequate body temperature and can result in the premature cessation of first aid treatment.

Before emergency eyewash and shower equipment is selected, a risk assessment shall be carried out to determine the most appropriate delivery temperature for the application. Means to ensure a constant, suitable delivery temperature shall also be identified during selection, so that equipment can perform as desired once installed.

installation instructions

Before proceeding with installation, ensure all operating and dimensional specifications are suitable for the intended installation. Make sure that the eye wash meets the location and height requirements as required by the relevant standards.

EYEWASH LOCATION The Eye wash shall be positioned in an accessible location that requires no more than 10 seconds to reach from the potential hazard. The eye wash unit shall be located on the same level as the hazard and a path of travel shall be free of obstructions that may inhibit the immediate use of the equipment. For a strong acid or strong caustic, the eye wash shall be located immediately adjacent to the hazard.

The unit shall be positioned with the flushing nozzles not less than 838mm and no greater than 1143mm from the finished floor level on which the user stands, and 153mm (minimum) from the wall or nearest obstruction. **IMAGE 1**

The eye wash location shall be identified with a highly visible sign complying with AS1319 positioned so the sign is visible throughout the area served by the eyewash. The area around the eyewash shall be well illuminated. (AS4775-2007)

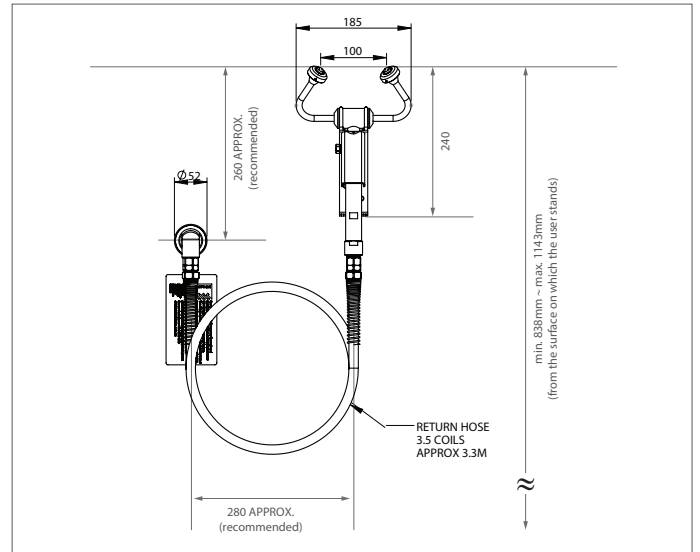


IMAGE 1

Unpack and layout all parts, check that you have all parts. **IMAGE 2**

Set out and Rough-in:

Set out and provide a 1/2" BSP male fitting for water inlet, allowing approx. 12mm of thread proud from finished wall. **IMAGE 3**



IMAGE 2



IMAGE 3

FIT-OFF

1. Prior to installation, flush the line thoroughly to remove debris*. Once the line is clear of debris, proceed to next step. A pressure reduction valve may be required to comply with recommended water supply pressure.

*Use of a strainer (40 mesh) is recommended if debris is an ongoing problem

2. Apply thread tape onto the 1/2" BSP male thread on wall. Screw wall mount on and tighten firmly. **IMAGE 4a 4b**



IMAGE 4a



IMAGE 4b

3. Locate chrome elbow, apply sealing tape onto male thread and screw to wall mount firmly. Ensure the elbow is facing straight down. (tip: a 1/2" BSP male fitting can be screwed loosely to the other side of the elbow to gain leverage) **IMAGE 5/6**



IMAGE 5



IMAGE 6

4. Apply sealing tape onto 1/2" BSP thread of the hose, screw to the elbow and tighten. **IMAGE 7**

5. Locate the bracket, and once the hand held eye wash is in the desired position, mark holes for the bracket on wall. Drill the holes and secure bracket using appropriate wall fixings/ anchors. **IMAGE 8**



IMAGE 7



IMAGE 8

commissioning

1. Ensure all connections are tight. Make sure that handle is pulled up to "off" position. **IMAGE 9**
2. Turn water on to check for leaks.
3. Activate eyewash by pushing activation handle forward. **IMAGE 10**
4. Check that the water flow pattern from the eye wash outlet is as recommended. If not, the supply water pressure may need to be checked, or the flow regulator may be blocked with debris and needs to be cleaned out. Refer to Troubleshooting on page 6



IMAGE 9



IMAGE 10

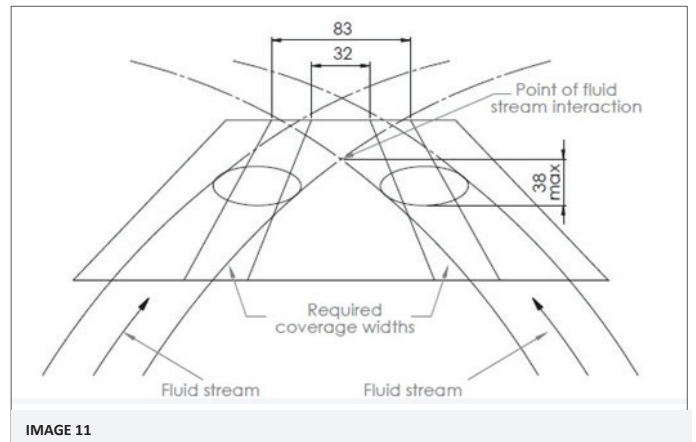


IMAGE 11

operating instructions

1. To activate the eyewash, push activation handle forward **IMAGE 12**
This opens the valve allowing water to flow directly to the eyewash outlets.
2. Leave the eyewash on the bracket to rinse the eyes. Alternatively, to wash other parts of the body, lift the eyewash off the bracket and rinse affected areas as required. **IMAGE 13**
3. To close the valve and stop the flow, gently pull back activation handle. **IMAGE 14**



IMAGE 12

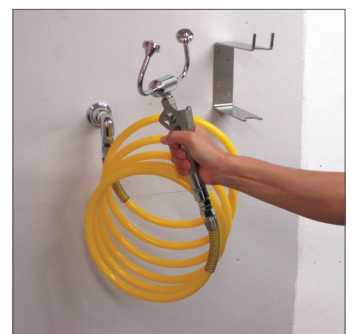


IMAGE 13

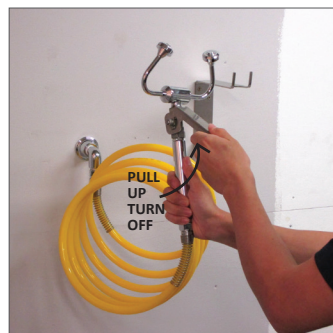


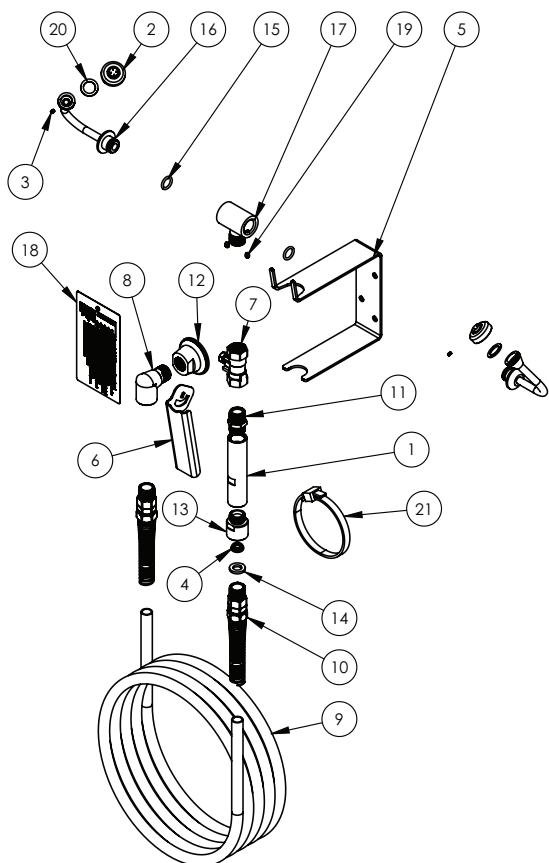
IMAGE 14

trouble shooting

When servicing ensure that the water supply is turned OFF before disassembling the product.

PROBLEM	CAUSE	RECTIFICATION
Water runs constantly, drips or leaks from outlet	Ball valve not shut off properly	Pull up handle all the way to "off" position
	Debris fouling ball valve	Dismantle eye wash arms, and flush the line to remove debris
	Pressure is too high	Reduce water supply pressure to meet specification
No flow or low flow from outlet	Ball valve is not fully opened	Squeeze handle to full "on" position
	Flow controller or eye wash outlet nozzle is blocked with debris	Dismantle and clean
	Pressure is too low	Increase water supply pressure to meet specification
Eyewash stream is too strong	Pressure is too high	Reduce water supply pressure to meet specification
	Flow regulator has failed	Replace flow regulator
Water discharge from thread joints, seams or fittings	O-ring is worn or damaged	Replace o-ring
	Sealant is inadequate	Dismantle and re-apply sealant, re-assemble
	Fitting is damaged	Replace damaged part

components and maintenance



1	Handle
2	Outlet - Ablution housing & Insert
3	Grub Screw 672460
4	Flow Regulator 3 Lpm
5	Bracket
6	Handle (for ball valve)
7	Valve 1/2" BSP FF
8	Elbow Swept 1/2" BSP MF C/P
9	Hose 1/2"
10	Spring & nut for hose
11	Hex nipple 1/2" BSP C/P
12	Wall mount
13	Adaptor Junee 1/2" MF C/P
14	Washer - black rubber 21 x 12 x 3mm
15	O-ring BS113
16	Eye wash frame/arm
17	Saddle
18	Inspection tag
19	Grub screw M5
20	Washer - rubber 23 x 16 x 1.5 NBR70
21	Cable Tie

service and maintenance

The eyewash needs to be activated weekly for a period long enough to verify operation and ensure the flushing fluid is available (AS4775-2007 & ANSI Z358.1-2009).

Note: the intent is to ensure that there is a flushing fluid supply at the head of the device, to clear the supply line of any sediment build up that could prevent fluid from being delivered to the head of the device, and to minimize microbial contamination due to sitting water. Hose condition and outlets should also be checked for damage or wear. All eyewash units shall be inspected annually to assure conformance with AS4775-2007 & ANSI Z358.1-2009.

Access to internal parts to check for debris or for cleaning purposes:

1. Turn off water supply.
2. To access the flow controller, unscrew 1/2" BSP hex nipple from handle piece. **IMAGE 15**
3. To dismantle eye wash frame use a 2.5mm Allen key to undo grub screw. Make sure to take the grub screw out completely. The eyewash arm piece is sealed by an o-ring and will pull straight out. **IMAGE 16**



IMAGE 15



IMAGE 16

4. To access inside nozzle, use a 1.5mm Allen key to undo grub screw on the nozzle housing, and unscrew the nozzle housing by hand.

IMAGE 17 and 18



IMAGE 17



IMAGE 18

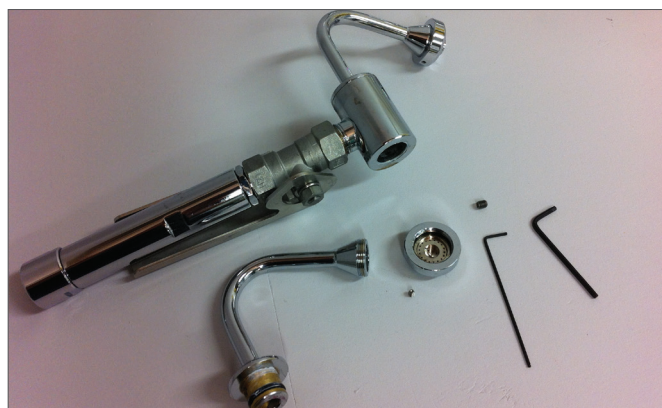


IMAGE 19



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