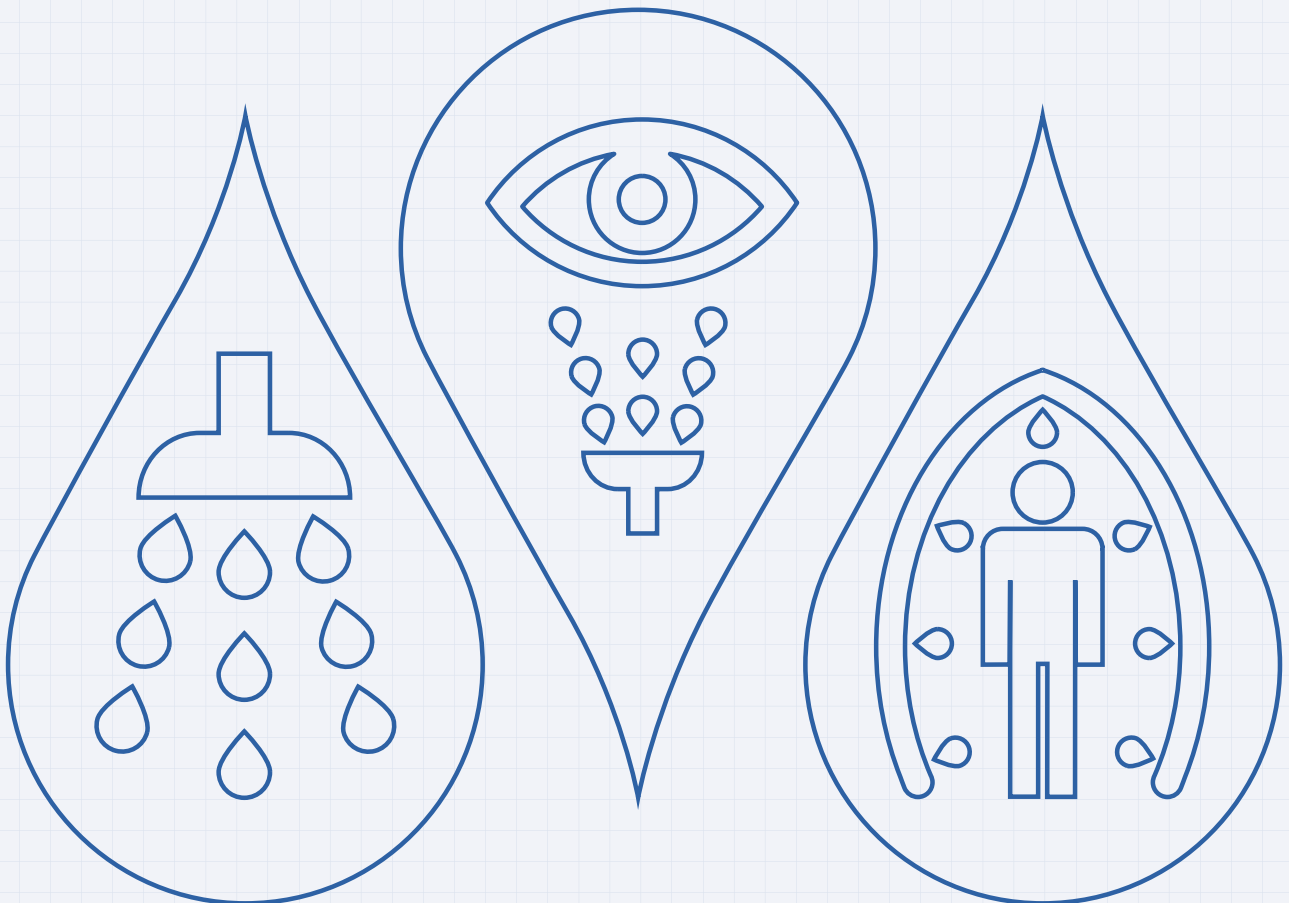


HUGHES SAFETY SHOWERS

» Europe's leading manufacturer of emergency safety
showers, eye/face wash and decontamination equipment



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1968

OVER 50 YEARS OF MANUFACTURING EXCELLENCE

JD Hughes Fabrications, founded in 1950, were erecting pipework in the petrochemical industry when an unfortunate accident became the impetus for developing safety showers and eye/face washes – long before current HSE/COSHH requirements. The products were soon in demand, so in 1968 the company began to specifically manufacture emergency shower and eye/face wash equipment. Now an international market leader and part of the Justrite Safety Group, Hughes has sites and customers across the world.



WORLDWIDE DISTRIBUTION

Manufacturing and offices in the UK, USA, Canada, Germany and the Middle East supported by a network of distributors.

ISO CERTIFIED

- ISO 9001:2015 Quality Management System Certification
- ISO 14001:2015 Environmental Management Systems Standard
- ISO 45001:2018 Health and Safety Management Systems Standard



ABOUT HUGHES

ADDITIONAL SERVICES...

- Customised Solutions Project Management Team
- Engineering and CAD Team
- Dedicated Service and Support Team
- Smart Monitoring
- Site Assessments
- Hire Fleet



WE SPECIALISE IN...



Emergency Safety
Showers



Eye/Face Wash
Equipment



Decontamination
Equipment

SOLUTIONS FOR ALL INDUSTRIES

For example:

- | | |
|-------------------|----------------------|
| • Water utilities | • Manufacturing |
| • Oil and gas | • Agriculture |
| • Offshore | • Military |
| • Pharmaceutical | • Emergency services |



EUROPEAN & INTERNATIONAL STANDARDS

- EN15154
- ANSI Z358.1-2014
- DVGW certified





Why do I need a safety shower or eye/face wash unit?

Whatever industry you're in, there's nothing more important than keeping your workforce safe – that's where we come in.

Our emergency safety showers, eye/face wash units and decontamination equipment provide you with a safer working environment, greater protection against serious injury and peace of mind that you're compliant with crucial safety standards.

These high-quality products are used in a wide range of industries, including oil and gas, offshore, manufacturing and agriculture. They're the first line of defence in the event of an accidental splash or spillage on site. Using them, you can quickly wash off potentially hazardous substances. Without them, you could risk serious injury, permanent disability or even death.

How can Hughes help me?

We provide a complete package that takes care of everything, so you don't have to. This includes manufacturing, installing and servicing safety showers and eye/face washes for a wide range of environments – from deserts to Arctic conditions.

In order to fully assess your needs, Hughes' experts are available to carry out free site surveys and recommend the right safety showers for your site. If necessary, we can engineer customised solutions to meet any unique requirements. (See Page 16 for more information.)

You can also take up an Essential or Essential**Plus** service contract with us to help prolong the lifespan of your equipment and ensure its safe operation. This guarantees regular checks from highly-skilled engineers who can identify potential problems to prevent serious failures.

Hughes' hire service also allows you to keep your workforce protected during short contracts and annual maintenance shut downs, or when buying equipment isn't an option.



Why Hughes?

With a first-class reputation gained from more than 50 years of trading, Hughes is renowned for innovative engineering design, premium-quality products and stringent compliance with European and International standards.

Our company was born of innovation in site safety and has been at the forefront of this field ever since. That's five decades of trusted knowledge and expertise you won't find elsewhere.

It's what enables us to fully understand your unique requirements and create customised solutions that meet your needs perfectly.

Quality is our watchword – with all our processes audited to ISO standards, and manufacturers of sustainable, high-quality components in evidence throughout our entire supply chain.

This means that when you buy a product from us, it will be reliable, robust, 100% fit-for-purpose, safety compliant and long lasting.

With sites in the UK, USA, Canada, Germany and the Middle East – and a global network of authorised distributors – you can rest assured you're in safe hands.



Five decades of trusted knowledge and expertise.

Introducing Justrite Safety Group

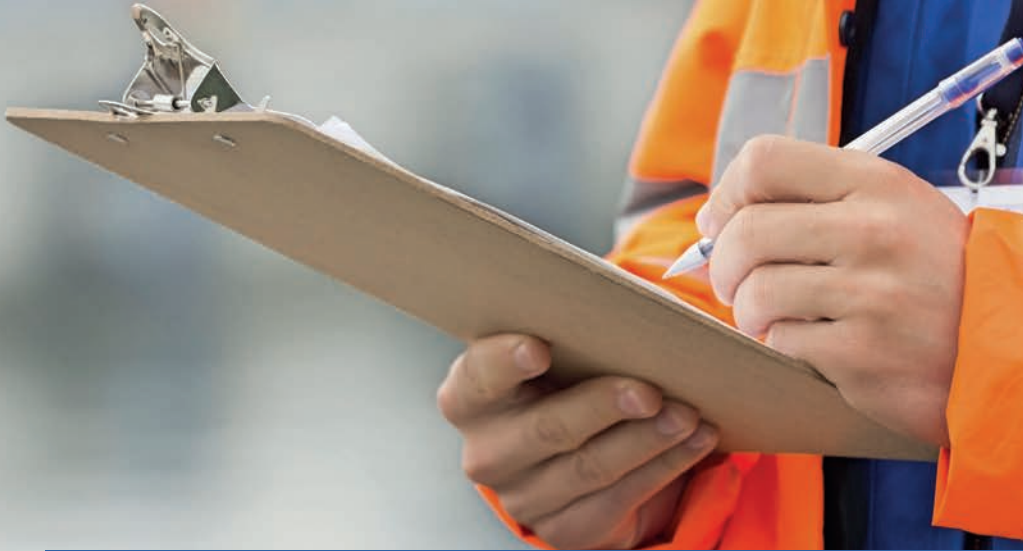
» Hughes Safety Showers is a portfolio company of Justrite Safety Group. Justrite Safety Group is a growing family of leading industrial safety companies. Together we protect workers, workplaces and the environment with a comprehensive range of industrial safety solutions – from the storage, containment and clean-up of hazardous materials to motion safety, emergency showers, signs, tags and labels.



All Justrite Safety Group portfolio companies are united by deep safety knowledge, long experience, and a commitment to protecting people, property and the planet.



At Justrite, everything starts with safety.



Providing a seamless experience

All of the Hughes Safety Showers products you know and trust will continue to be offered under the Hughes banner. Hughes will maintain its current location, capabilities, personnel and products. Hughes Safety Showers is now part of Justrite Safety Group, which offers the world's largest industrial safety portfolio.

Work with confidence

At Justrite Safety Group, everything starts with safety. We partner with customers to better understand, anticipate and systematically address the safety challenges you face every day. Our experts will survey your entire operation, identifying how to get you into compliance and keep you there. Our mission is to identify workplace vulnerabilities and guide customers in creating an ecosystem of safety – so your team can work with confidence.

Worker and workplace safety

- Cable management
- Emergency showers
- Hazardous storage
- Industrial matting
- Motion safety
- Safety identification products

Environmental protection

- Aerosol recycling
- Ground protection
- Material handling
- Secondary containment
- Spill containment



What do I need to consider when purchasing a safety shower or eye/face wash unit?

» There are many important considerations when choosing the right safety showers and eye/face washes for your site. Check these crucial questions to get you started:

Do you understand what is recommended and required by local, European and International standards?

Hughes lead the market in our compliance structure, anticipating future needs as well as conforming to all current standards and demands. See page 10-11 for more details.

Have you consulted your Safety Datasheet (SDS) to identify the chemical and subsequent hazard?

This will provide more detail on the decontamination procedure required for the chemicals in question in the event of an incident or contact with the skin. For example, if ammonia comes into contact with the skin it must be rinsed with water at a temperature of between 25-30C for at least 15 minutes.

Have you consulted your site risk assessment to determine the specific requirements for emergency safety showers or eye/face wash equipment?

Site risk assessments will provide the information you need to understand the location, specification and quantity of equipment required.

Is there an existing site standard and/or specification for emergency safety showers and eye/face washes?

There could be a company specific standard in place that must be adhered to.

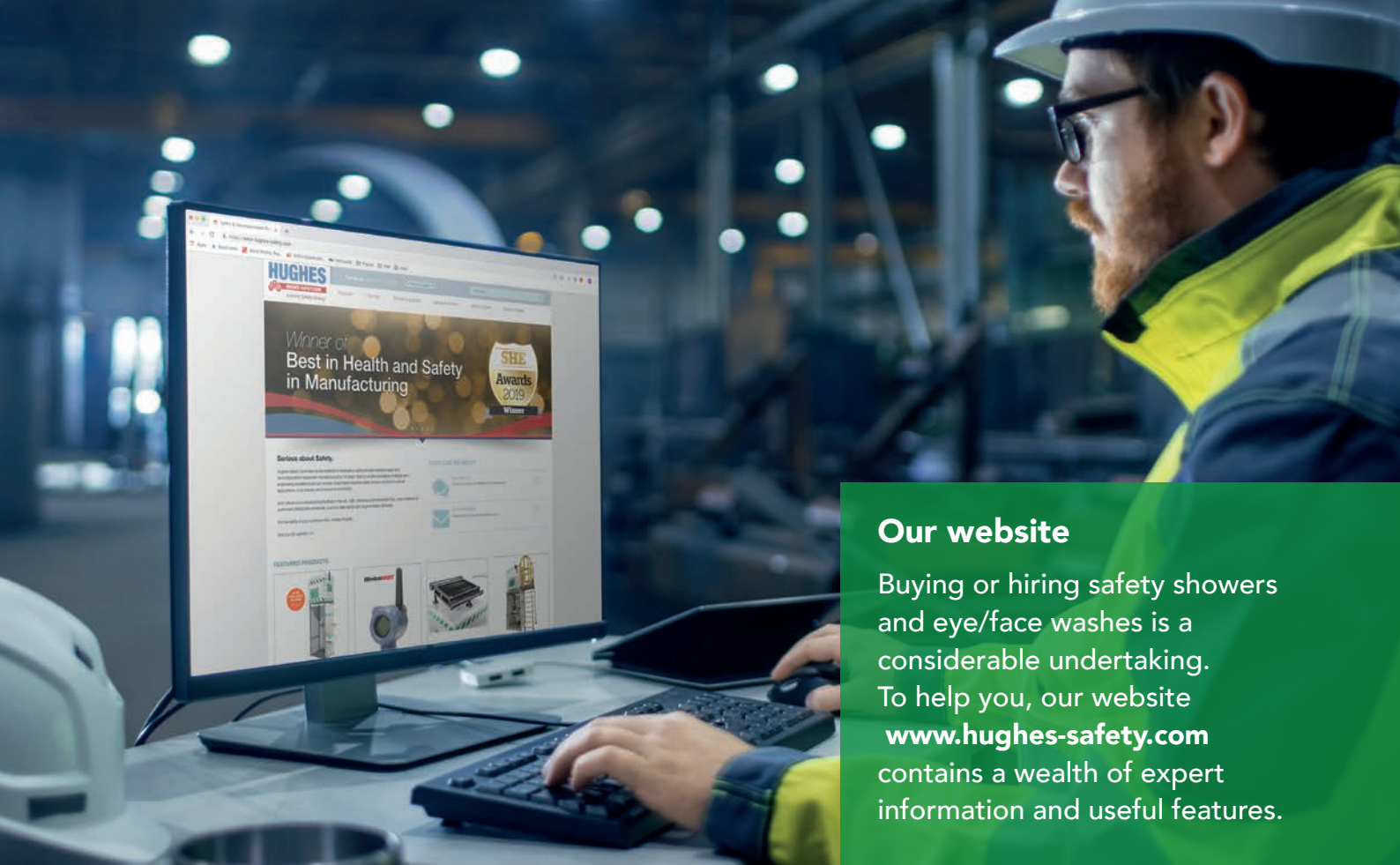
Who will potentially be using the safety showers and eye/face washes and what are their function?

Do employees wear PPE, gas-tight suits or industrial workwear? This will identify the type of models required. For example, our PPE decontamination showers protect both the individual and preserve the lifetime of costly personal protective equipment.

When considering the location of your safety showers and eye/face washes ask yourself the following questions:

- What is the ambient temperature of the location of the hazard?
- Do you have sufficient drainage to contain potentially contaminated water?
- Do you have a potable and reliable water supply with enough pressure at the site of the hazard?
- Is the shower being used in an explosive area?
- Have you considered electrical requirements for hazardous locations such as ATEX and IECEx?

With half a century of expertise in this field we can guide you through the purchasing process. Contact the Hughes team to discuss your needs in detail. Call us on **+44 (0)161 430 6618** or email us at **sales@hughes-safety.com**



Our website

Buying or hiring safety showers and eye/face washes is a considerable undertaking. To help you, our website **www.hughes-safety.com** contains a wealth of expert information and useful features.

Essential expert information with just a few clicks

» Our products

Organised within several categories, all our products are listed with a downloadable datasheet, containing technical information and a General Arrangement drawing, and an installation and maintenance manual.

» The Hub

Go to **www.hughes-safety.com/hub** to see case studies of some of the excellent work we've completed for clients in a range of sectors. You'll also find news of the latest developments that keep us at the forefront of our field – and much more.

» Live chat

When you need to ask a quick question, or really get to grips with something, our online chat function is invaluable. Within seconds, you can connect with our experts, and even request a quote.

» About us

Discover more about Hughes' history and our professional certifications that demonstrate our commitment to excellence – and to supplying high-quality, compliant products.

» Build an enquiry

Browse the site and add products of interest to your enquiry. You can select a range of optional fittings to customize your product if required. Once submitted a Hughes representative will send over your quotation or contact you to discuss your unique requirements.

Go to **www.hughes-safety.com** for all this and more essential information, including international safety standards, our products for hire, and our service, repair and support capabilities.



Understanding European and International Standards

The European standard EN15154 Parts 2 and 5, and the internationally recognised ANSI Z358.1-2014 standard recommend performance requirements for industrial eye wash units and emergency safety showers.

These standards are focused on the performance, use, installation, testing, maintenance and training of this essential safety equipment, and while not legally binding it is considered best practice to adhere to them in order to remain compliant.

It is advisable to consult the standards in their entirety before purchasing a safety shower, here we aim to provide a general overview of the main requirements for the satisfactory operation of emergency safety showers and eye wash units.

For a more in-depth summary of the standards visit: www.hughes-safety.com/standards

Water Temperature

- Water delivered by safety showers should be tepid, between 16C-38C (60F-100F)

At temperatures above 38C (100F) there is the added danger of scalding and increased absorption of harmful chemicals into the skin.

Prolonged exposure to water below 16C (60F) increases the risk of thermal shock or hypothermia and prevents the casualty using the shower to decontaminate effectively for the full 15 minutes.

Adequate Water Flow

- Emergency safety showers should deliver a minimum of 76 litres per minute of potable water for up to 15 minutes in the required spray pattern.
- Eye/face wash units should deliver 12 litres per minute for up to 15 minutes to ensure a thorough decontamination.

Operation

- Equipment must be both accessible and easy to operate, even if the victim has impaired vision.
- The shower and eye wash valve must be designed so the flushing flow remains on without the use of the operator's hands, and goes from 'off' to 'on' in one second or less.

Location

- Emergency safety showers should be installed within 10 seconds reach and on the same level as a potential hazard.
- They must be situated in a prominent position, clearly visible, well-lit and free from any obstructions.

Maintenance

- Emergency equipment must be visually inspected and activated weekly along with an annual service to ensure conformance to EN and ANSI standards.
- A good maintenance program is essential to guarantee reliable and effective emergency equipment.





Emergency safety showers and eye/face washes for all climates and environments

Whether you are operating within a factory or laboratory, or outdoors in the heat of the Middle East – or the cooler climates of Europe during winter, Hughes have a safety shower to suit.

View the product groups for an overview as to how they can meet your requirements. Many of our models are suitable for hazardous areas and are available to DVGW standards.

To explore the range in full visit www.hughes-safety.com



» Piping Material Choices

All pipework used in the manufacture of Hughes products share the same rigidity, strength and UV resistance you'd expect. The choices offered are often better suited to certain applications and environments.

Galvanized mild steel

- Cost effective
- Coated internally and externally with a thin layer of zinc to resist corrosion
- Suitable for general, non-corrosive environments

Stainless steel

- Highly durable and resistant to rust
- Excellent for wet environments, or where salt or salt spray is present

Stainless steel with powder paint finish (Laboratory range only)

- Extremely strong and provides the greatest corrosion resistance
- Easy to clean, ideal for the laboratory setting

Tank Fed Safety Showers



EXP-MH-14KS/1500

1500L Emergency Tank Shower fitted with the Hughes Zero Power Cooler®

In environments where a constant water supply is unavailable, or where water pressure is unreliable, the tank fed safety showers are essential.

For indoor use, or outdoors in warm climates, the insulated models ensure a steady water temperature is maintained. In extreme hot climates, the addition of a chiller unit is crucial to prevent water within the tank reaching dangerous levels and potentially scalding a casualty upon activation.

Choose from a selection of chiller options to guarantee the provision of tepid water. The range includes units suited to both hazardous and non-hazardous environments.

In cold climates the heated and insulated models prevent the possibility of water in the tank freezing.

For severely cold climates, the polar tank showers incorporate a double-skinned fibreglass insulated cubicle to protect the user from the elements.

- Available with a 350 litre or 1500 litre overhead tank
- Meets and exceeds EN and ANSI standards by providing tepid water for over 15 minutes at a guaranteed flow of 76 litres per minute for 15 minutes (*1500L model only*)
- Quick and simple push handle activation
- Lidded eye wash protects against dust and debris
- Optional external water level indicator provides visibility to tank levels
- Fully customisable with a wide selection of optional fittings



EXP-J-14KS/350

350L Emergency Tank Shower



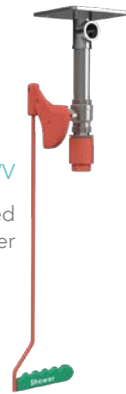
Indoor Safety Showers

The Hughes mains-fed indoor emergency safety showers are suitable for a range of applications, including a selection designed specifically for the laboratory environment.

The scope of the range extends from simple wall or ceiling mounted units, (perfect where space is at a premium) to cubicle showers with integral drain sumps and free-standing models complete with body spray and eye/face wash.

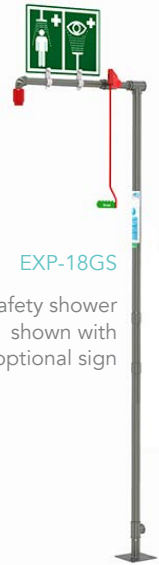
- EN and ANSI compliant
- Choice of pipework - stainless steel or galvanised mild steel. Laboratory safety showers manufactured in easy to clean, corrosion resistant powder coated stainless steel
- Combination showers available with a closed bowl eye wash, or open bowl stainless steel or ABS eye wash
- Cubicle safety showers feature an integral drain sump to contain contaminated water
- Easy grip pull rod for fast shower activation
- Optional foot treadle for hands free eye wash operation

EXP-23GS/V
Ceiling mounted
safety shower



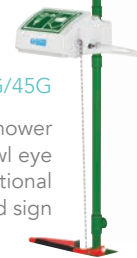
EXP-18GS

Safety shower
shown with
optional sign



EXP-18G/45G

Combination safety shower
with ABS closed bowl eye
wash. Shown with optional
foot treadle and sign



Models available with a yellow ABS plastic
or stainless steel open bowl eye wash

LAB-33GS/34G

Wall mounted
laboratory safety
shower with eye wash



LAB-23GS/V

Ceiling mounted
laboratory safety
shower



STD-SD-32K/45G

Cubicle safety
shower. Shown with
optional ABS closed
bowl eye wash and
strip screens



Outdoor Safety Showers



☀ EXP-SD-18GS/85G

Self-draining safety shower with stainless steel open bowl eye wash. Shown with optional sign and foot treadle

❄ EXP-MH-14KS/1500-P

1500L Immersion heated polar tank fed safety shower

- EN and ANSI compliant
- Durable and UV resistant lidded eye washes, ideal for outdoor use
- Jacketed and pre-insulated safety showers offer resistance from the elements, without electrical components

Designed to suit the challenges of varying climates and locations. Outdoor tank fed (see page 11) and plumbed-in options for both hot and cold environments.

In extreme hot conditions the intensity of the sun can heat standing water left in the pipework following a safety shower activation to alarming levels. The self-draining models allow this water to drain away, rather than risk scalding the next operator.

Immersion heated or trace-tape heated safety showers prevent water within the pipework freezing in temperatures down to -35C and -20C respectively. Select from wall or floor mounted drench showers or combination showers featuring an eye wash.

❄ STD-MH-15KS/11K

Immersion heated safety shower with ABS closed bowl eye wash, body spray and handheld eye bath



❄ EXP-AH-5G/45G

Trace tape heated safety shower with ABS closed bowl eye wash. Shown with optional sign and foot treadle



Temperature Controlled Safety Shower

Essential when a reliable hot water supply is not readily available, or for environments that experience low ambient temperatures.

These units are designed to remain on standby to deliver warm water for over 15 minutes. The thermostatically controlled mixing valve ensures the temperature is kept constant, between 20-25°C. Featuring an integral heated water tank, these models can also be used as a warm water source to feed another emergency safety shower in the local vicinity.

- EN and ANSI compliant
- Suitable for indoor or outdoor use
- Lidded front mounted eye wash provides 12 litres per minute water flow
- Corrosion resistant stainless steel frame and pipework

STD-TC-100KS/45G

Safety shower and ABS closed bowl eye wash with integral water heater



Mobile Self-Contained Safety Showers

Ideal for stand-by use in hazardous environments where no constant water supply is available, or when existing safety showers are undergoing maintenance.

Allowing flexibility of location and rapid response, whatever the location. The mobile units can act as a secondary safety measure to supplement permanent units – and are particularly useful if the site of the hazard moves as a project progresses, such as the shifting demands of a construction site.

STD-MH-P-1200L

1200L Mobile self-contained safety shower with ABS closed bowl eye wash



STD-J-40K/45G

114L mobile self-contained safety shower with insulated jacket and ABS closed bowl eye wash. (shown above without jacket: STD-40K/45G)



- Removable insulated or heated jacket available to protect these units from the effects of frost and solar radiation
- Also available for short or long term hire

Eye Washes



STD-85G

Stainless steel open bowl



STD-75G

ABS open bowl



STD-45G

Closed bowl ABS



OptiWash®

38 litre wall mounted self-contained eye wash (heated or insulated jackets available)



STD-38G

15 litre portable eye, face and body wash

Hughes offer an extensive range of plumbed in and self-contained eye washes suitable for all climates and environments.

Whether you need wall, pedestal, table or bench mounted eye washes there is a model to fit your requirements.

For locations that are unsuitable for fixed installations, the portable units enable rapid response and can be used as a secondary safety measure to supplement plumbed in eye/face wash units.

- Choose from open bowl in plastic or stainless-steel, or a closed bowl to protect the diffusers from dust and debris
- For the laboratory environment, the powder coated stainless-steel models are corrosion resistant and easy to clean
- Quick and simple to activate, with the option of hands-free operation on many of the plumbed-in models



EXP-SD-85G/P

Self-draining pedestal mounted eye wash with stainless steel open bowl.



EXP-AH-45GS/P

Trace tape heated pedestal mounted eye wash with ABS closed bowl



LAB-85GS/P

Pedestal mounted powder coated stainless steel eye wash

Shown with optional hands-free foot control

PPE Decontamination Showers



DEC-D-29

PPE walk through decontamination shower with multiple nozzles



Protect both the health and safety of employees doffing PPE, and prolong the lifetime of this costly equipment with these specially designed showers.

- Models available offering a two-stage decontamination process with the incorporation of a detergent and hose brush, followed by a multi-nozzle secondary wash-down for thorough suit cleaning
- High velocity spray nozzles provide a thorough decontamination
- Trace tape heated and insulated models for use in outdoor locations

DEC-V-2

Wall mounted PPE decontamination shower with detergent inducer and hose brush

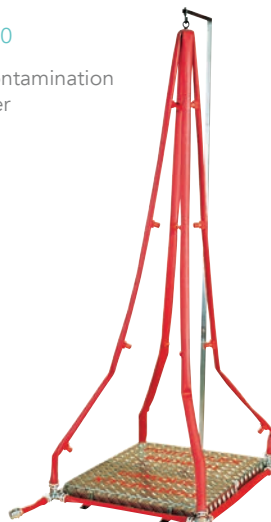
Portable Decontamination Showers

In emergency response situations fast deployment of decontamination equipment is a priority. This selection of products is suitable for first responders, mass emergency decontamination or for training purposes.



PORTAdec 500

Portable decontamination misting shower



PORTAflex Cupola

Multi nozzle portable decontamination shower within an inflatable shelter



PORTAflex 300/16E

Multi nozzle portable decontamination shower

Accessories and Replacement Parts

Accessorise your emergency safety shower and eye wash equipment with options that improve safety, increase functionality and add convenience.

A selection of some of the most popular accessories:

- **Audible/visual alarms** provide an additional level of safety for your staff, ensuring a safety shower activation doesn't go unnoticed.
- **Hands free foot activation** can be fitted as the primary operation method, though the equipment can still be operated by hand if required.
- **ABS or stainless steel shower roses** can be fitted in place of the standard Hughes nozzle.



- In situations where clothing must be removed prior to decontamination, the **modesty curtain** offers privacy to the casualty.
- **Hi-visibility GRP barriers** provide a demarcation zone to help prevent the access area at the front of a shower becoming obstructed and offer stability to the casualty.
- **Hose reels** - pedestal mounted or housed within a hi-visibility cabinet with optional heating. Ideal for washing down the area surrounding a safety shower following decontamination, for chemical spillages or simply to keep an area clean.



- **Thermostatic mixing valves** accurately control and maintain the water temperature of the safety shower or eye wash.
- Regulate water supply pressure by fitting a **pressure reducing valve** to the water inlet.



There are many more options to explore!

Visit www.hughes-safety.com to view optional fittings by product, you can then add items of interest to your enquiry and request a quotation.



Engineered Solutions – custom made products to meet your exact needs

Whatever the demands of your industry or environment, we can custom create safety shower and eye/face wash products to fit your exact requirements – thanks to the design and engineering excellence of our experts who are leaders in their fields.

To achieve this, we bring together our vast pool of knowledge and industry experience. Through innovation and collaboration with our customers, we deliver the most effective solutions, whatever the requirement, wherever the project.

As part of the Justrite Safety Group, we have access to an extensive line of industrial safety products including safety cabinets, safety cans, secondary spill containment (spill pallets, bunds), and outdoor chemical storage buildings.

Our services include

- ✓ Project planning – using a dedicated team of mechanical and electrical engineers
- ✓ Customised engineering and design using SolidWorks® CAD software
- ✓ Site surveys and risk assessments
- ✓ Third party certification, inspection and testing to all relevant standards
- ✓ The complete package – design, manufacturing, installation, commissioning, training, after-sales service and extended warranties

Contact our Engineered Solutions team to discuss your specific requirements.

Call us on **+44 (0)161 430 6618**

or email us at **sales@hughes-safety.com**



Customisation in action

» Excellent examples of how our expertise has created custom solutions to big challenges.

A slick solution for a 'supergiant' oilfield

A remote location. Lack of a constant water supply. Extremes in temperature from -40C to +45C. These were just some of the challenges faced by a supergiant oilfield in Kazakhstan looking for emergency safety showers.

The site prides itself on being one of the largest and safest oilfields in the world. The requirement was for safety showers that would operate in the face of the environmental challenges presented by its size and location.

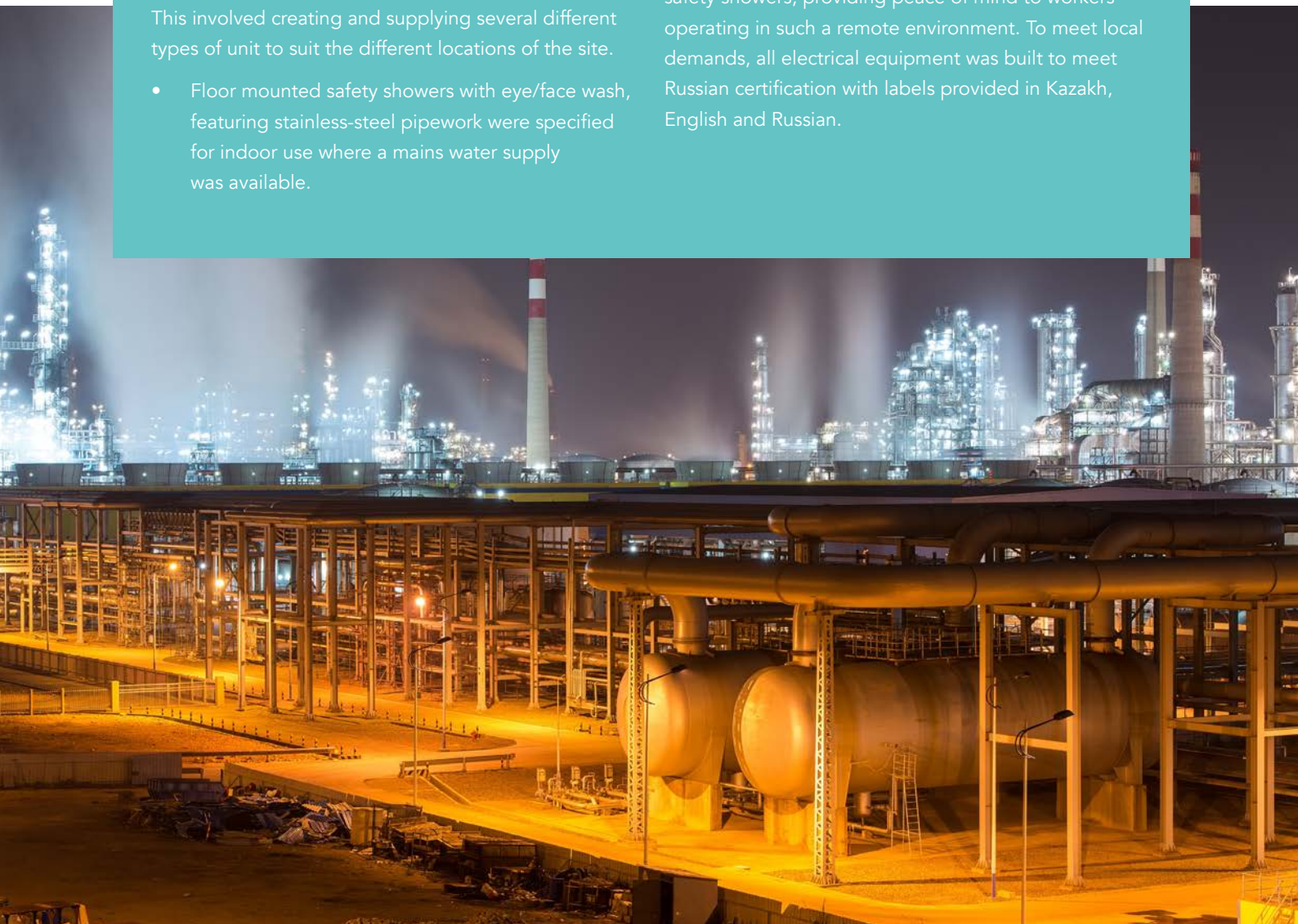
Our fully customised solution

This involved creating and supplying several different types of unit to suit the different locations of the site.

- Floor mounted safety showers with eye/face wash, featuring stainless-steel pipework were specified for indoor use where a mains water supply was available.

- For the more remote indoor facilities with an unreliable water supply, the same model was specially engineered with the addition of a gravity fed water tank.
- For outdoor use, the Polar Emergency Tank Shower and Polar Cubicle with tubular showers met all the requirements. These units, with double skinned insulated booths, push open doors and air heaters were the ideal solution for the extremes in conditions experienced in this location.

Additionally, remote alarms were supplied for all the safety showers, providing peace of mind to workers operating in such a remote environment. To meet local demands, all electrical equipment was built to meet Russian certification with labels provided in Kazakh, English and Russian.





Refining a standard for a refinery committed to safety

A top international oil and gas refinery on France's western coast approached Hughes to create an engineered solution for a PPE decontamination shower.

Even in the safest refineries, activities such as process sampling, inspection, handling or recharging pose chemical risks. The safety-conscious company wanted an automatically activated shower that allowed an extended damping time to provide additional assurance throughout the decontamination process.

Our customised solution

This was based upon the standard model DEC-D-29. This self-draining, walk-through decontamination shower with multiple nozzles incorporates a double unit and an automatic on/off activation complete with optoelectrical sensors.

The extended damping time of the double unit provided the additional assurance the customer required and ensures operators are fully doused without the chance of passing through the unit too quickly.

The optoelectrical sensors allow the shower to start instantly upon entering, making the unit easy to operate.

As well as complying with regulations and protecting people's health and safety, PPE decontamination showers also keep costly personal protective equipment in better condition for longer.



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